'Smart ways to save energy'

IntelliCon®

INSTALLATION MANUAL

Intellidyne, LLC
90 Pratt Oval
Glen Cove, NY 11542
516-676-0777
www.Intellidynellc.com

3/6/2006

Air Conditioning

General Instructions:

General Wiring Instructions	2-1
2 Stage Air Cooled Air Conditioners	2-1
Heat Pump System	2-2
York Heat Pumps	2-2
Typical Packaged HVAC System	2-3
Typical 24vac Split A/C Air Handler	2-4
Typical 208/230vac Split A/C Air Handler	2-4
AC or CAC in Outdoor Condensing Section	2-5
Trane with Honeywell W973 Logic Panel	2-6, 7, 8
Trane “Voyager” with Interface Board	2-9
Trane “Voyager” without Interface Board	2-10, 11
Honeywell T775 Applications	2-12

HEATING

Beckett HeatManager

Honeywell L7124A, C or L7148A	3-1
Honeywell L7124U	3-2
Honeywell L7148F	3-3
Honeywell L7224U Electronic Aquastat	3-4
Honeywell L8124A, C	3-5
Honeywell L8124E	3-6
Honeywell L8124G, L	3-7
Honeywell L8148A	3-8
Honeywell L8148E	3-9
Honeywell L8148J	3-10
Honeywell L8151A	3-11
Honeywell R7184A, B, P, U (Line Voltage Controller)	3-12
Honeywell R7184A, B, P, U (Low Voltage Controller)	3-13
Honeywell R7184A, B, P, U “REVISION 5” Model	3-14
Honeywell R8182D	3-15
Honeywell R8182E	3-16
Honeywell R8182F	3-17
Honeywell R8184G, K, L, N Cad Cell Relay	3-18
Honeywell R8184M, P	3-18
Honeywell R8285D	3-19
Riello Model 40F5	3-20
Cad Cell Relays General Instructions	**3-21**
Honeywell R8184G, K, L, N	3-22
Honeywell R8184M, P	3-22
Honeywell R7184A, B, P, U	3-23

HEAT TIMER

CHS/CHW with Mechanical Heat Timer 3-25
CHS/CHW with MPC Heat Timer 3-26
LCH with Mechanical Heat Timer 3-27
LCH with MPC Heat Timer 3-28
LCS with Mechanical Heat Timer 3-29
LCS with MPC Heat Timer 3-30

HW with Riello Model 40F5 3-31

Honeywell Aquastats (see Beckett HeatManager also)

L7124A, C 3-32
L7124U 3-33
L7148F 3-34
L7224U Electronic Aquastat 3-35
L8124A, C 3-36
L8124E 3-37
L8124G, L 3-38
L8148A 3-39
L8148E 3-40
L8148J 3-41
L8151A 3-42
R7184A, B, P, U, (Line Voltage Controller) 3-43
R7184A, B, P, U, (Low Voltage Controller) 3-44
R7184A, B, P, U, "REVISION 5" Model 3-45
R8182D 3-46
R8182E 3-47
R8182F 3-48
Honeywell R8184G, K, L, N Cad Cell Relay 3-49
Honeywell R8184M, P 3-49
Honeywell R8285D 3-50
Riello Model 40F5 3-51

Fireye Flame Safeguard Controls

General Instructions 3-52
CHS or CHW with:
24CJ5, Model 3010, 3011 3-53
24CU6, Model 1062, 1063 3-54
24CF6, Model 1010, 1011 3-55
25CU6, Model 5056 3-56
26CF6, Model 5023 3-57
24CJ5, Model 5015 3-58
25CU6 Model 3010, 3011 3-59
26CF6 Model 5022 3-60
EP (D)160, EP161, EP(D)170 3-61
Modular "M" Series 3-62

UVM-1 3-63
UVM-1D, 1F, 2A, 3 or TFM -1D, 1F, 2A, 3 3-64
UVM-2A or TFM-2A 3-65
UVM-3 or TFM-3 3-66

LCH or LCS with: 24CJ5, Model 3010, 3011 3-67
24CU6, Model 1062, 1063 3-68
26CF6, Model 1010, 1011 3-69
25CU6, Model 5066 3-70
25CF6, Model 5023 3-71
24CJ5 Model 5015 3-72
25CU6 Model 5065 3-73
26CF6, Model 5022 3-74
EP (D)160, EP161, EP(D)170 3-75
Modular “M” Series 3-76
UVM-1 3-77
UVM-1D, 1F, 2A, 3 or TFM -1D, 1F, 2A, 3 3-78
UVM-2A or TFM-2A 3-79
UVM-3 or TFM-3 3-80

Honeywell Flame Safeguard Controls
General Instructions 3-81
CHS or CHW with: R4140G, L, M or R4150A, C, X 3-82
R4795A, D 3-83
R7795A, B, C, D 3-84
RM7800 or RM7840E, G, L, M 3-85

LCH with: AO Smith DuraMax Models DB/DW 720-1810 3-86

LCH or LCS with: R890E, F, G 3-87
R4140G, L, M or R4150A, C, X 3-88
R4795A, D 3-89
R7795A, B, C, D 3-90
RM7800 or RM7840E, G, L, M 3-91
RM 7895 3-92

Refrigeration

RU Wiring Precautions 4-1
RU Wiring Diagrams 4-2

Pressure Control Operated, 115vac power/control 4-2
Pressure Control Operated, 220vac power/ control 4-3
Pump-down System, 220vac power/control 4-5
Pump-down System, 220vac power/24vac control 4-6
Pump-down System, 220vac power/115vac control 4-7

FA/CFA

FA with Honeywell R8184G, K, L or N Cad Cell Relay 5-1
FA with Honeywell R8184 M or P Cad Cell Relay 5-1
FA with Honeywell R7184A, B, P, U Electronic Oil Primary 5-2
FA with Honeywell R7184A, B, P, U "Series 5 Relay 5-3
FA with Typical Residential Warm Air Furnace 5-4
FA with Riello Burner and Relay Module 5-5
CFA with Typical Packaged HVAC Unit 5-6

AIR CONDITIONING

CAUTION: Read and follow these general instructions and the instructions that are packed with the *IntelliCon*® Model AC or CAC. Failure to follow these instructions could result in damage to the system or cause a hazardous condition.

General Instructions:

The *Intelli*Con® Models "AC" and "CAC" are connected in the control circuit so that the call for the compressor to run is interrupted between the thermostat and the compressor. These connections are at the "Y" terminals on the unit low voltage control connection board.

These connections are made as follows:

1. **Remove the compressor "call" wire from the "Y" terminal.**
2. **Connect the *Intelli*Con® 'YELLOW" wire to this wire with a wire nut.**
3. **Connect the *Intelli*Con® "RED" wire to the "Y" terminal.**

The *Intelli*Con® Economizer is now connected in the control circuit in series after the thermostat but before any and all safety controls and the compressor.

Two Stage Air Cooled Air Conditioning Systems;

Some two stage cooling systems are designed to have the condenser fan energized with the first stage compressor, while the second condenser fan is energized on outdoor air temperature or condenser coil temperature.

When the *IntelliCon*® CAC is in the "Economizing" mode delaying the first stage compressor, the second stage compressor could be energized leaving it to run without the condenser fan running. This could result in the second stage cooling locking out on high pressure safety and not available for cooling when needed.

This is corrected by wiring the second stage compressor contactor to the first stage condenser fan relay. *Be sure to check electrical voltage and phasing.*

After mounting and wiring, test the operation of the *IntelliCon*® CAC and condenser fans before leaving the installation.

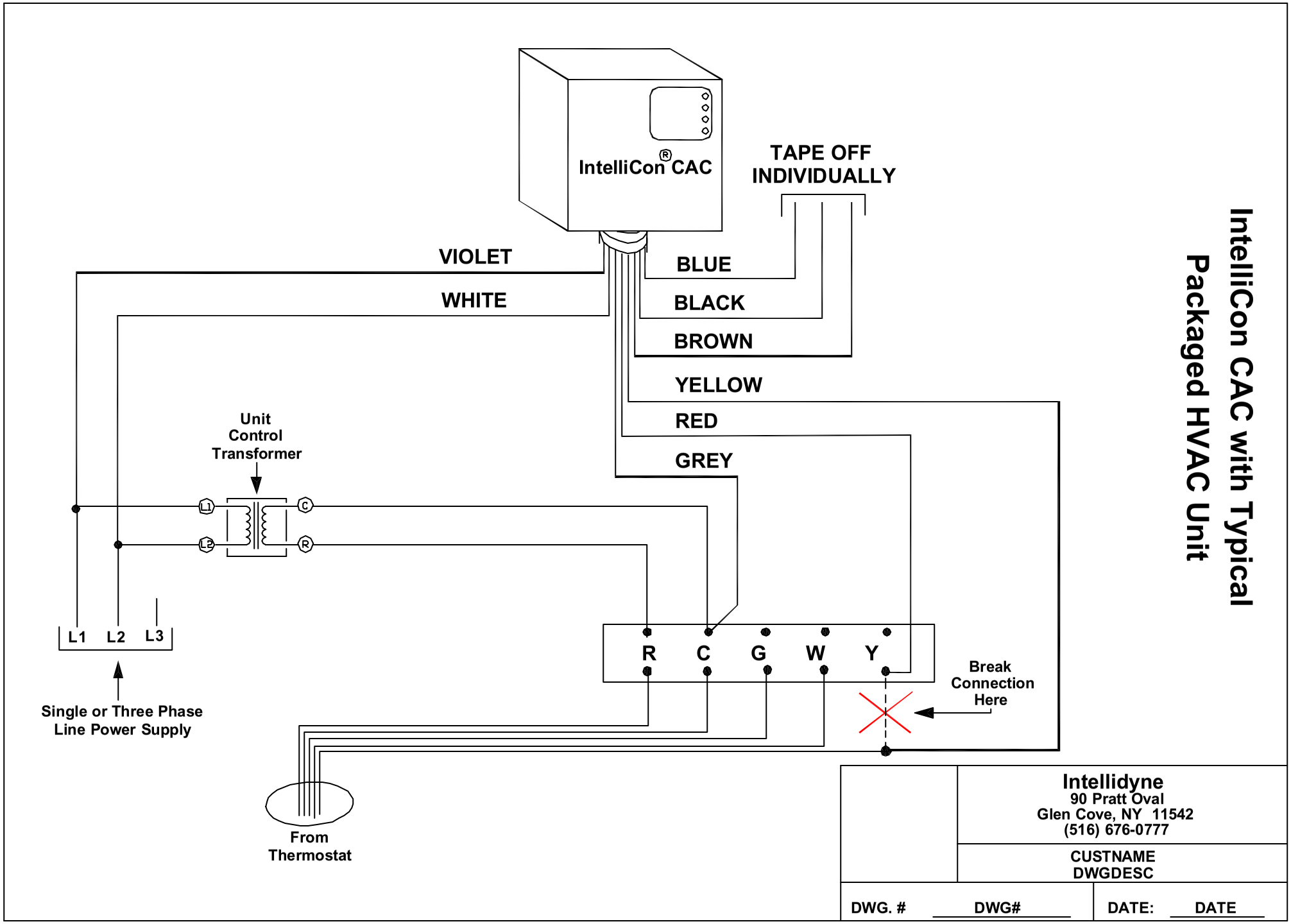
Continued on next page

HEAT PUMP UNITS (All Manufacturers)

On most systems the *Intelli*Con® AC or CAC units can be wired into the 24vac control circuit at the "Y" terminal in the air handler. When wired this way, the AC or CAC is in the circuit when in the cooling mode or heating mode. It is extremely important to be sure that the system you are installing on is wired this way.
Connect the AC or CAC as you normally would at the "Y" terminal.

York Heat Pumps:

Older York Heat Pump systems were wired so that the thermostat opened the 24vac "COMMON" instead of the 24vac "HOT". To connect the *Intelli*Con® Economizers in the 24vac control circuit, the *Intelli*Con® "GREY" wire must be connected to the 24vac "HOT". This is because the thermostat compressor wire is the 24vac "COMMON" instead of the normal 24vac "HOT".



IntelliCon CAC with Typical Packaged HVAC Unit

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	CUSTNAME DWGDESC
DWG. # DWG#	DATE: DATE

3/06/06

IntelliCon AC or CAC with Typical Air Handling Unit

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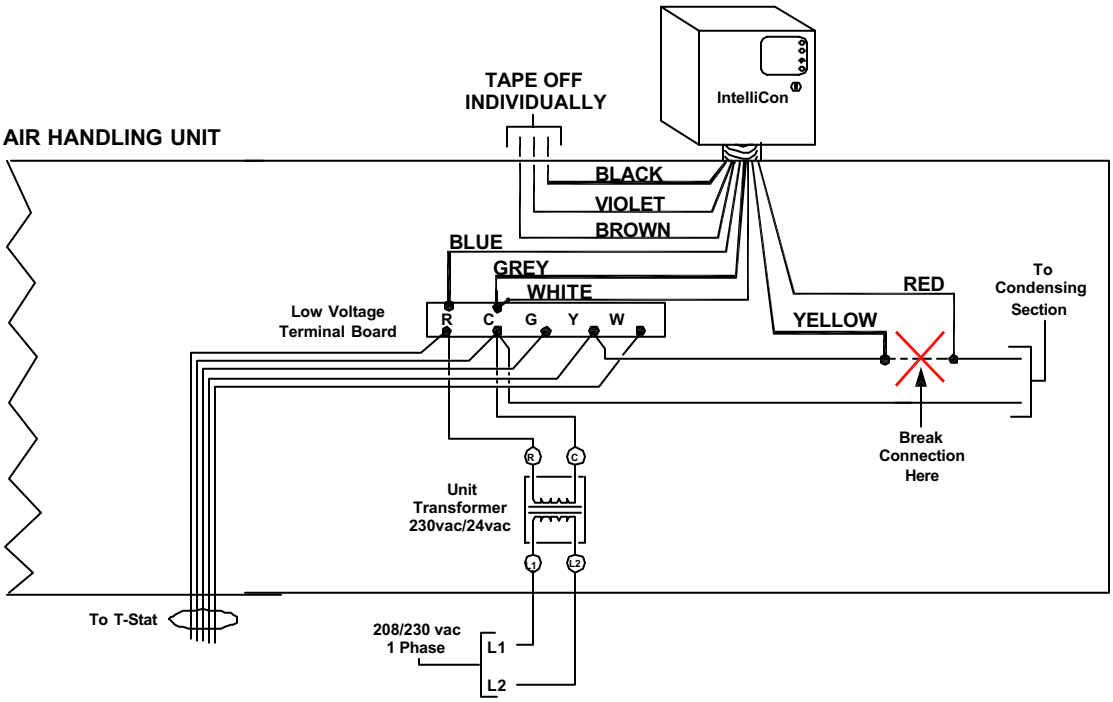
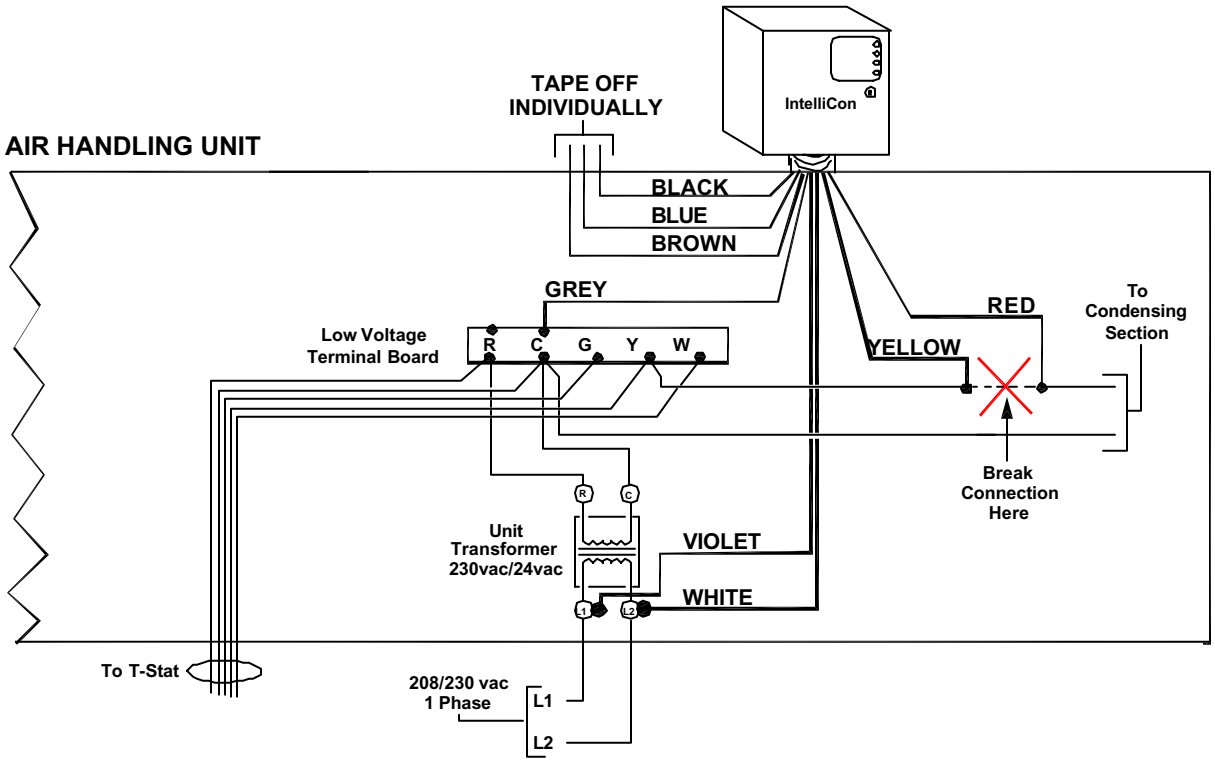
24vac Power To IntelliCon



208/230vac Power To IntelliCon



IntelliCon AC or CAC with Typical Outdoor Condensing Section

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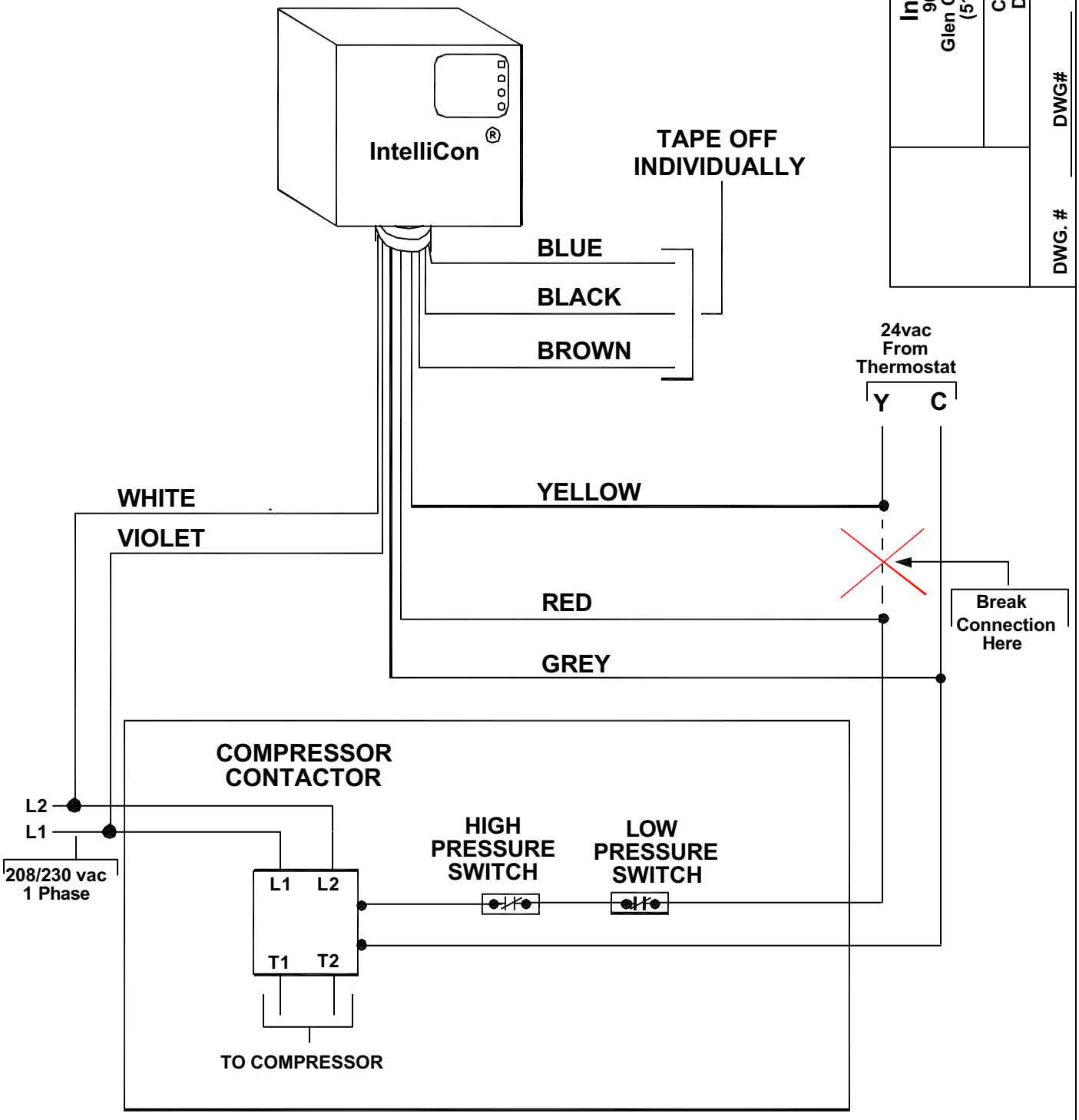

TYPICAL OUTDOOR CONDENSING SECTION

Trane Units:

With Honeywell W973 Logic Panel

Units with Honeywell W973 Logic Panel installed CANNOT have the *IntelliCon*® CAC Economizer wired at the compressor contactor. A low pressure bypass timer is in series in the safety control circuit with the high pressure safety switch, low pressure safety switch, etc. that will cause the compressor to lockout on a reset relay if the compressor does not start immediately upon the call for cooling from the W973 Logic Panel.

The low voltage terminal board in these units also cannot be used because it is 20 volts DC.

To connect the *IntelliCon*® CAC Economizer to systems using the Honeywell W973 Logic Panel, follow the factory authorized directions below and the wiring diagrams following pages.

The *IntelliCon*® CAC module can be wired at "COOL 1" of the W973.

1. **Remove the wire from the load side of the NORMALLY OPEN contact of "COOL 1"**
2. **Connect the YELLOW wire to this wire and connect the RED wire to the NORMALLY OPEN contact of "COOL 1"**

Properly connected, upon a ramping of the DC Voltage at the W973 from the Space Transmitter, "Cool 1" will energize but will be routed through the *IntelliCon*® CAC first.

Honeywell W973 Logic Panel
Using 24vac Control Circuit

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DATE:
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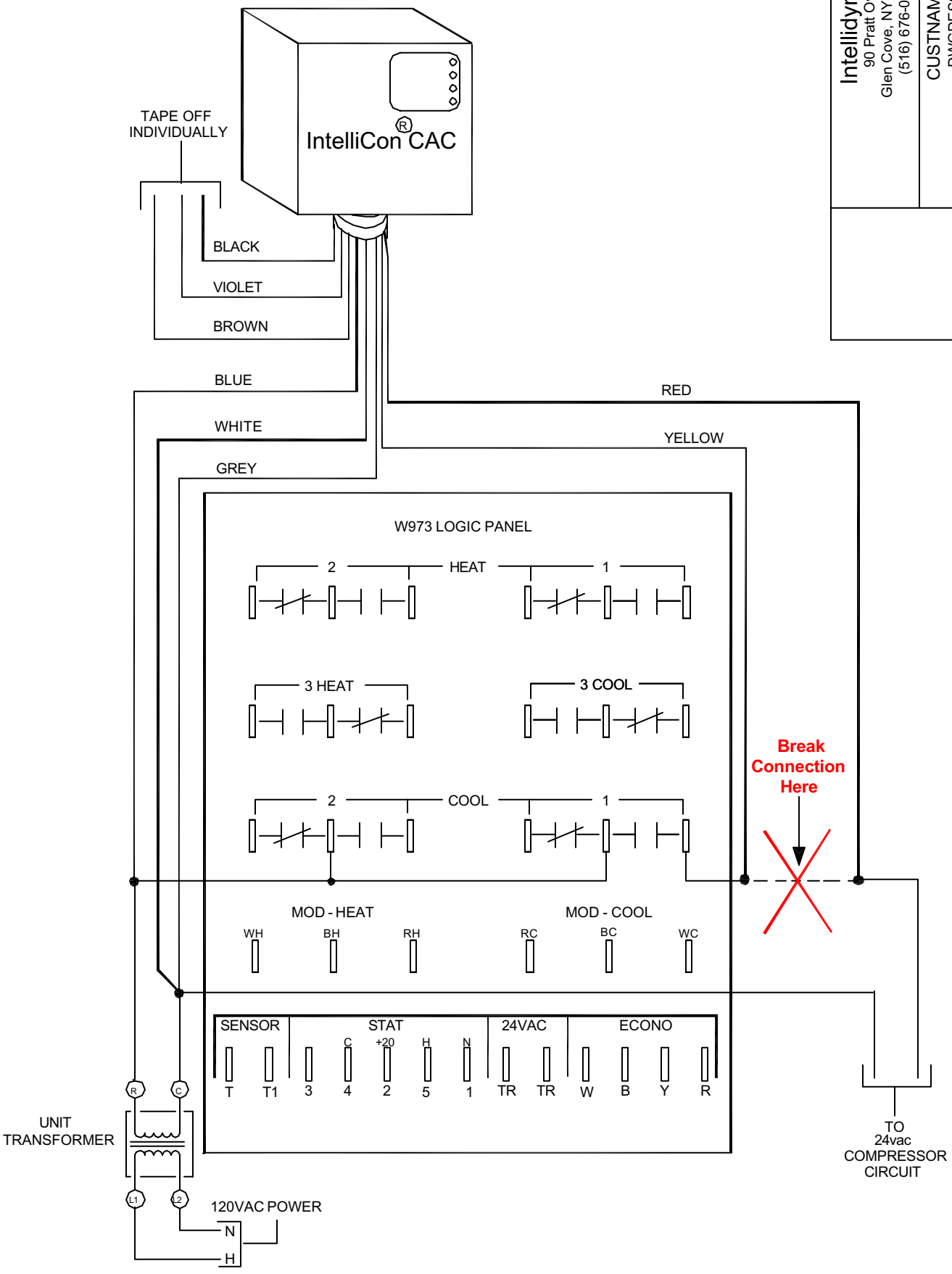
DWG. #



Honeywell W973 Logic Panel
Using 120vac Control Circuit

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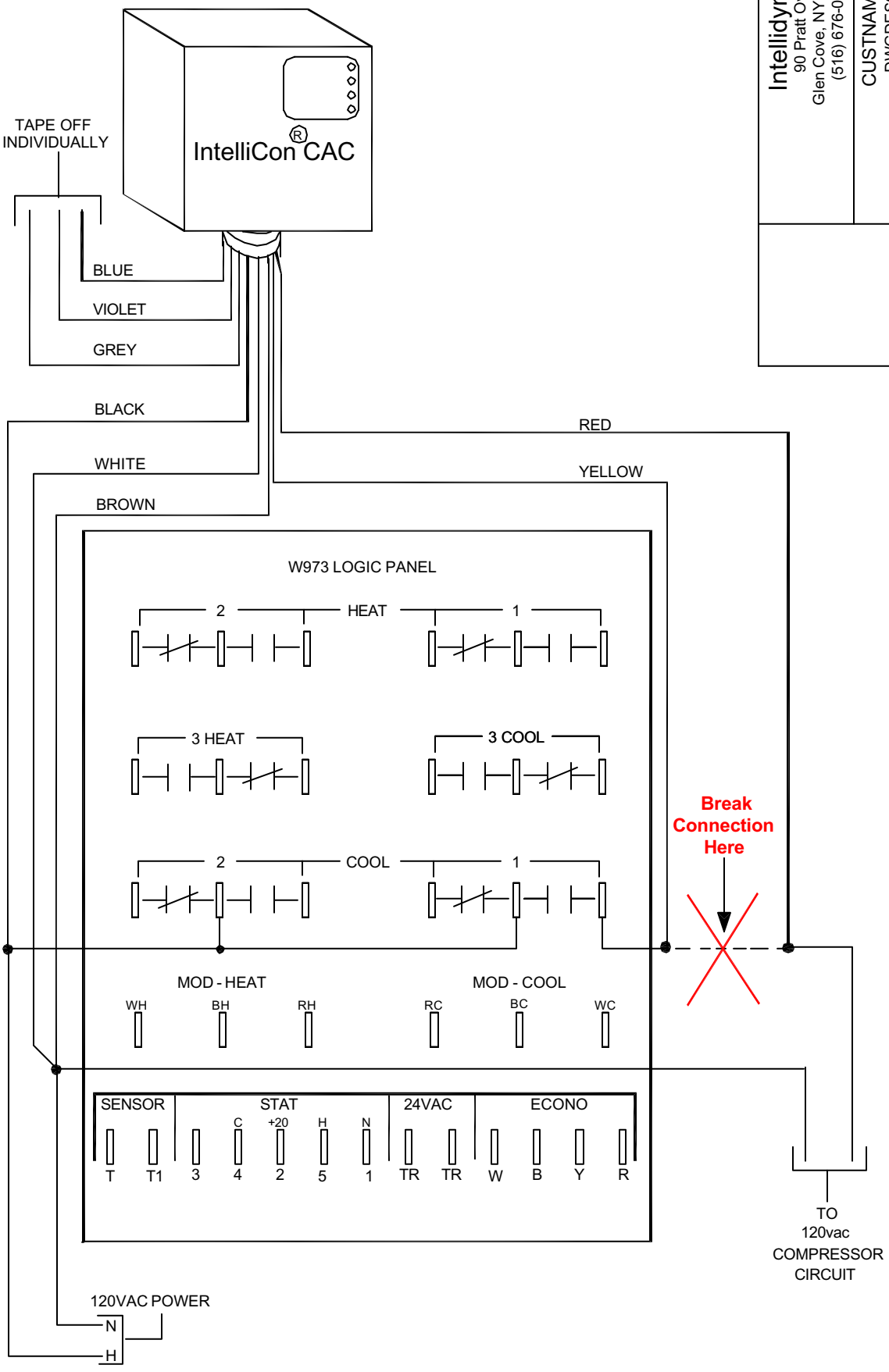
CUSTNAME
DWGDESC

DATE
DATE:
DWG#
DWG. #



TRANE "VOYAGER"

WITH THERMOSTAT INTERFACE BOARD

These units utilize a "normal" electronic or electro-mechanical thermostat. Connect the *IntelliCon*® CAC to the Low Voltage Terminal Board in the Trane unit as follows:

IMPORTANT; The following directions represent only one of the many variations of the Low Voltage Wiring Schematic supplied with the Trane Thermostat Interface Board due to changes in the Trane Voyager unit. CONSULT THE UNITS THERMOSTAT INTERFACE BOARD WIRING DIAGRAM FOR THE PROPER TERMINALS.

1. **Remove the thermostat "Y1" wire from terminal on the low voltage terminal board (LTB).**

2. **Connect the YELLOW wire from the *IntelliCon*® CAC to the wire you just removed.**

3. **Connect the RED wire from the *IntelliCon*® to the terminal where you removed the "Y1" wire from the thermostat on the low voltage terminal board (LTB).**

Trane "VOYAGER"

WITHOUT THERMOSTAT INTERFACE BOARD

These units CANNOT have the *IntelliCon*® CAC wired at the low voltage terminal board. Without the Thermostat Interface Board, a Trane "ZONE SENSOR" is used instead of a conventional thermostat and utilizes a DC voltage ramp.
The *IntelliCon*® CAC MUST be wired at compressor #1 contactor as shown in the diagram. Follow the same directions if the unit has 2 compressors.

Figure "A" shows the factory wiring of compressor #1 contactor.

Figure "B" shows how to wire in the ***IntelliCon*® CAC using a 200 ohm, 10 watt resistor.**
This resistor must be used to complete a voltage circuit back to the UPC board or the UPC board will lock the compressor out, requiring a manual reset of the unit.

To connect the *IntelliCon*® CAC to this configuration use the wiring diagrams on the following page.

Fig. A

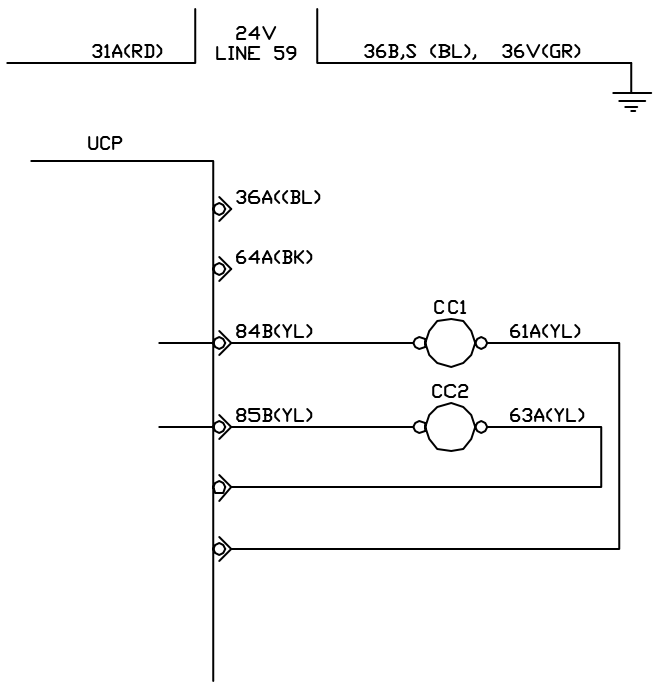
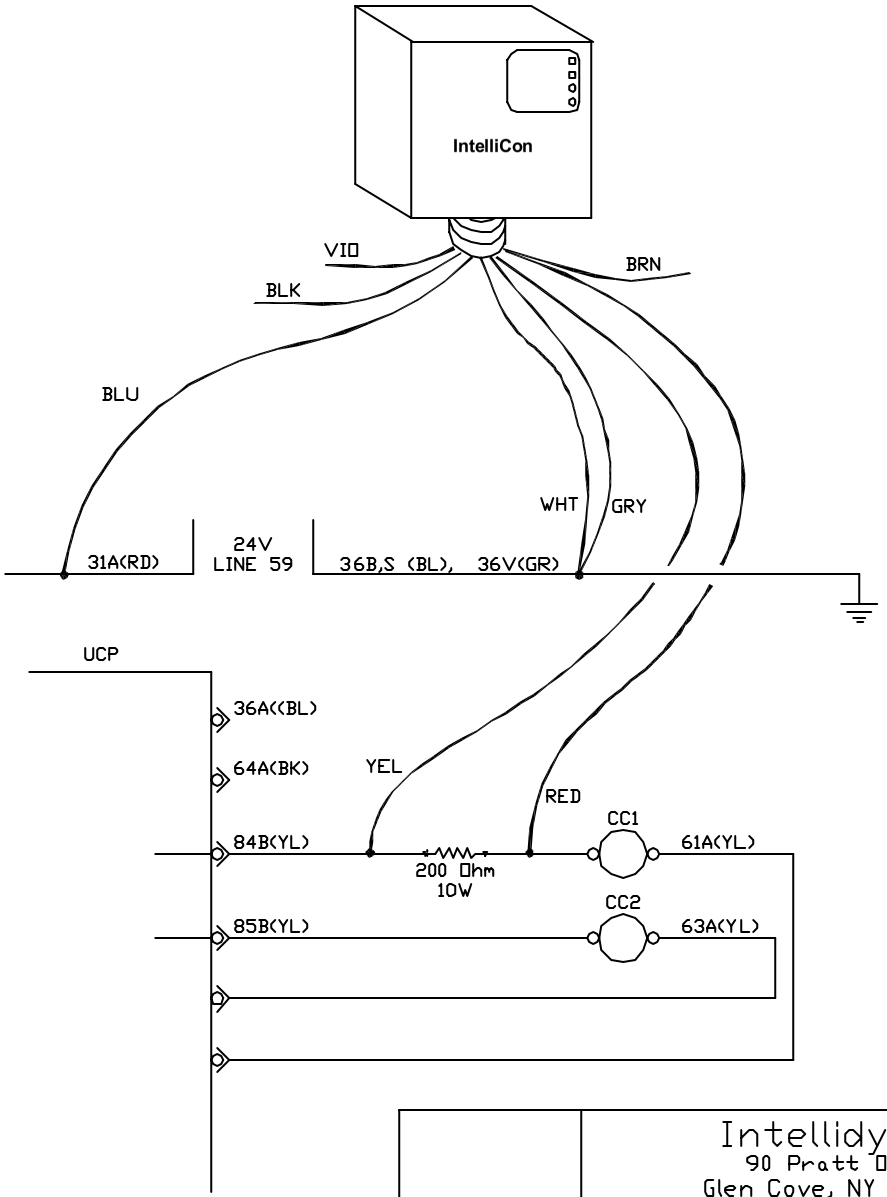


Fig. B



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TRANE VOYAGER UNT WIRING

DWG. # SK-001

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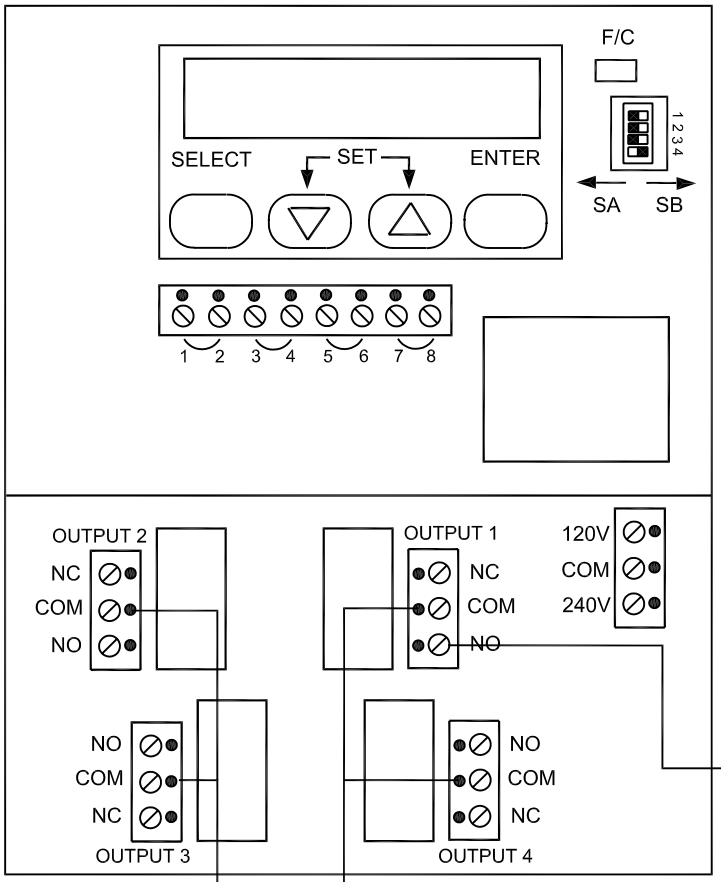
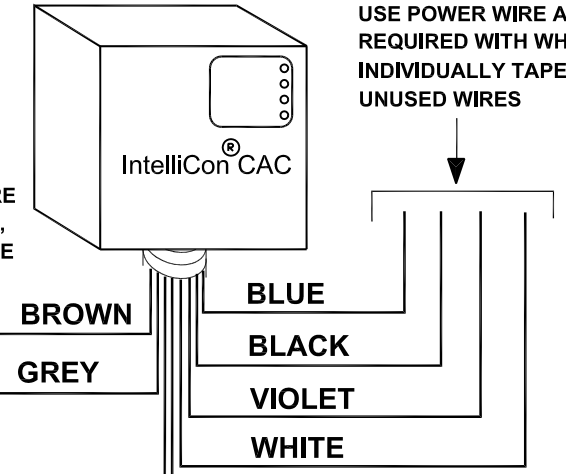
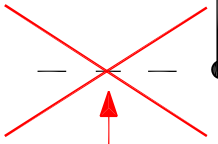
IntelliCon CAC With Honeywell T775 Applications

TYPICAL HONEYWELL T775







To Compressor Control Circuit

HOT

RETURN

24VAC, 115/120VAC OR 208/230VAC CONTROL POWER

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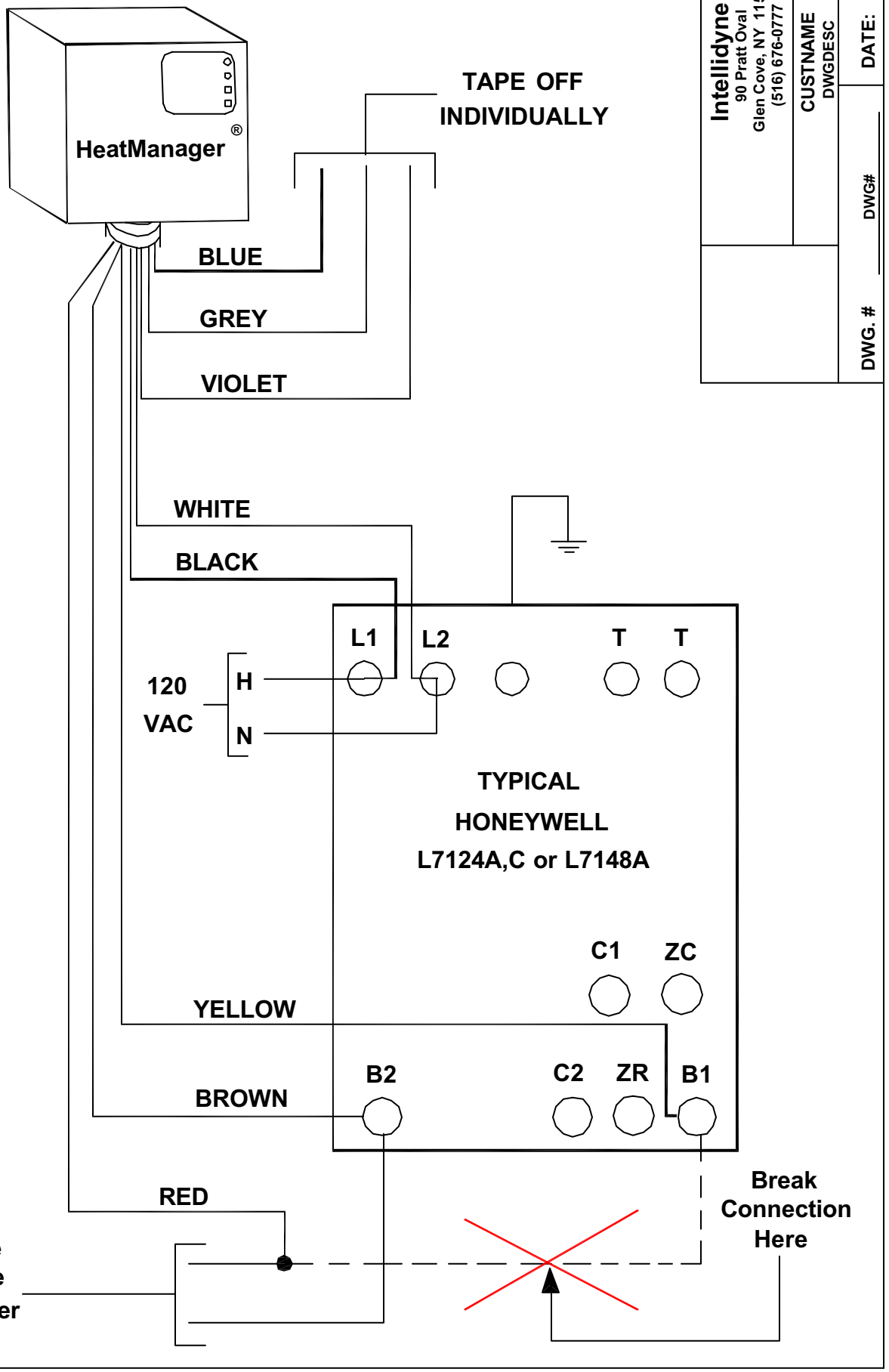
	CUSTNAME DWGDESC
DWG. # CAC/T775	DATE: 04/03/06

Beckett HeatManager with Honeywell L7124A,C or L7148A Oil Electronic Aquastat



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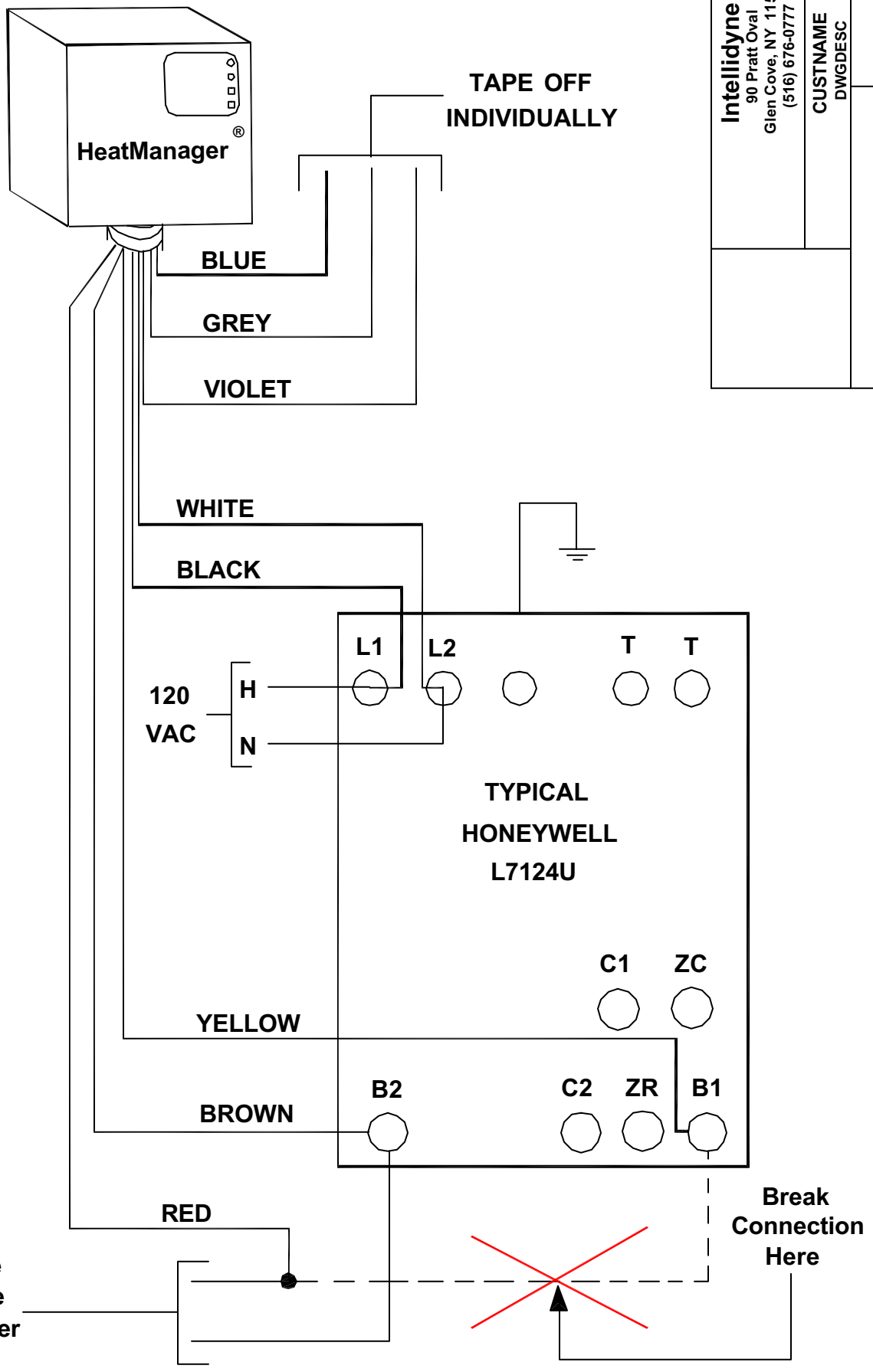
CUSTNAME
DWGDESC

DATE
DATE:
DWG#
DWG. #

Beckett HeatManager with Honeywell L7124U Universal Oil Electronic Aquastat



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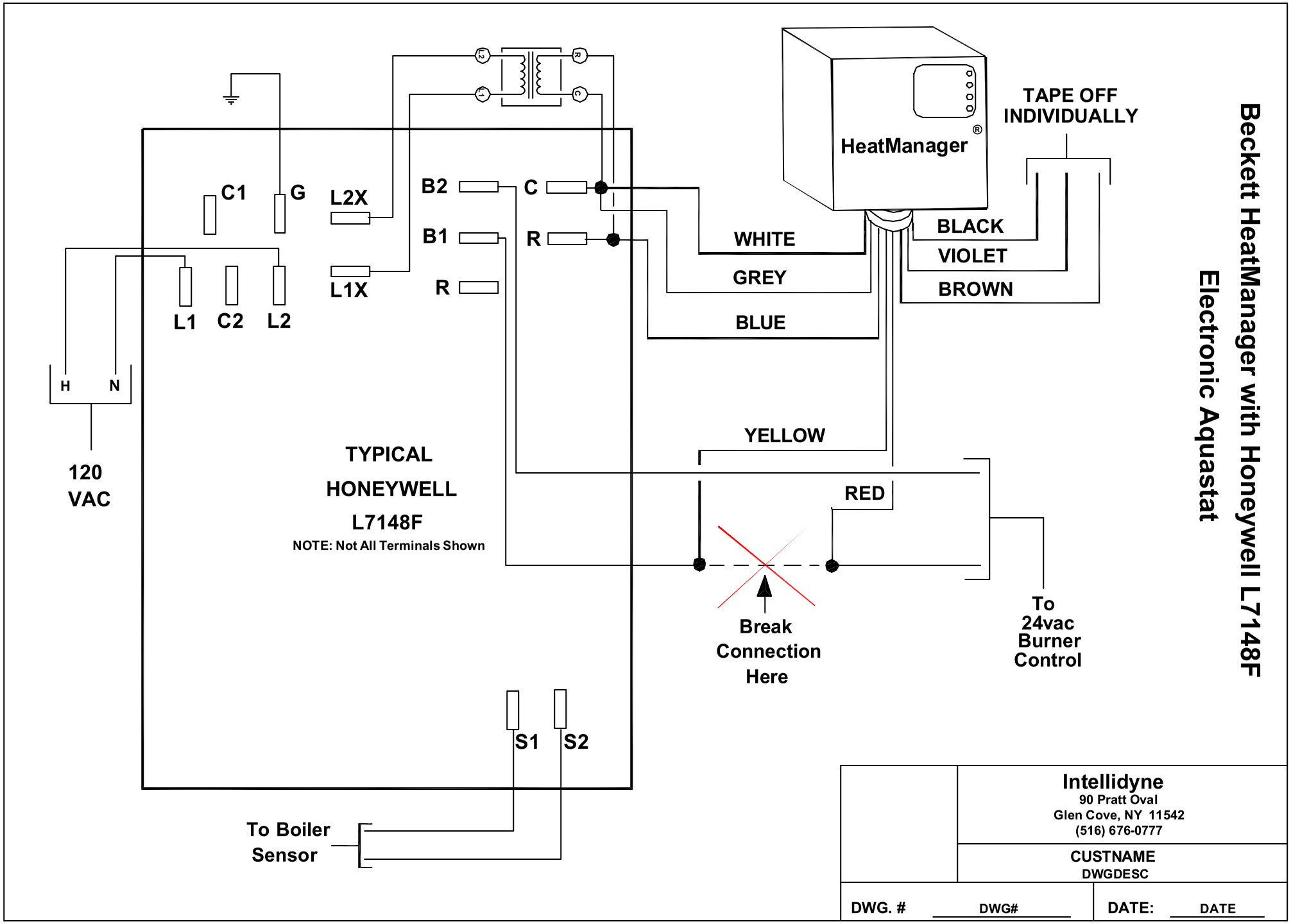
Beckett HeatManager with Honeywell L7148F
Electronic Aquastat
HeatManager
TAPE OFF INDIVIDUALLY
C1
G
L2X
B2
C
B1
R
R
L1X
L1
C2
L2
H
N
120 VAC
WHITE
GREY
BLUE
BLACK
VIOLET
BROWN
YELLOW
RED
TYPICAL
HONEYWELL
L7148F
NOTE: Not All Terminals Shown
Break Connection Here
To 24vac Burner Control
S1
S2
To Boiler Sensor
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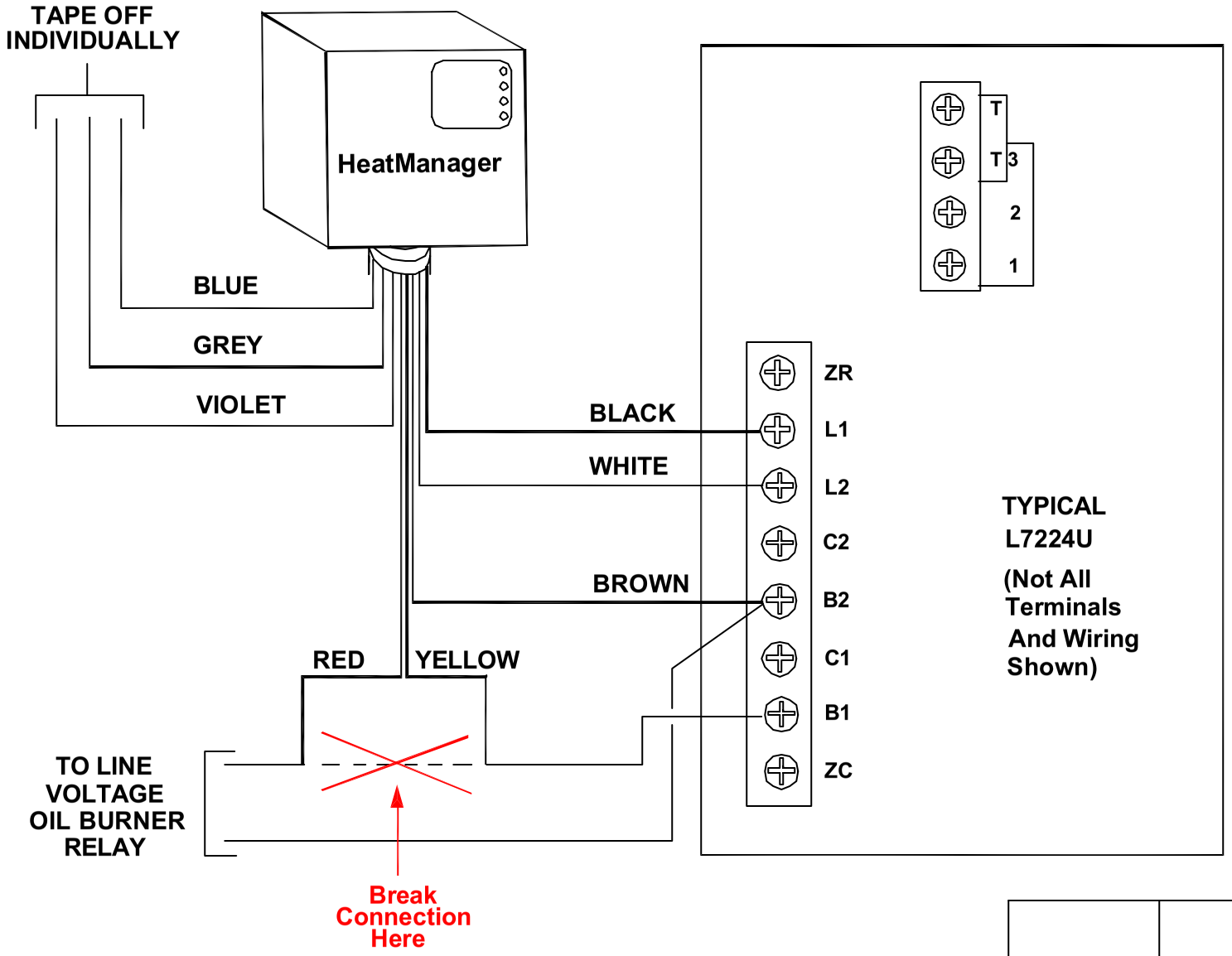
DWGDESC
DWG. # DWG#
DATE: DATE

Beckett HeatManager with Honeywell L7224U Oil Electronic Aquastat Controller



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DWG. # _____ DATE: _____

Beckett HeatManager with Honeywell L8124A,C

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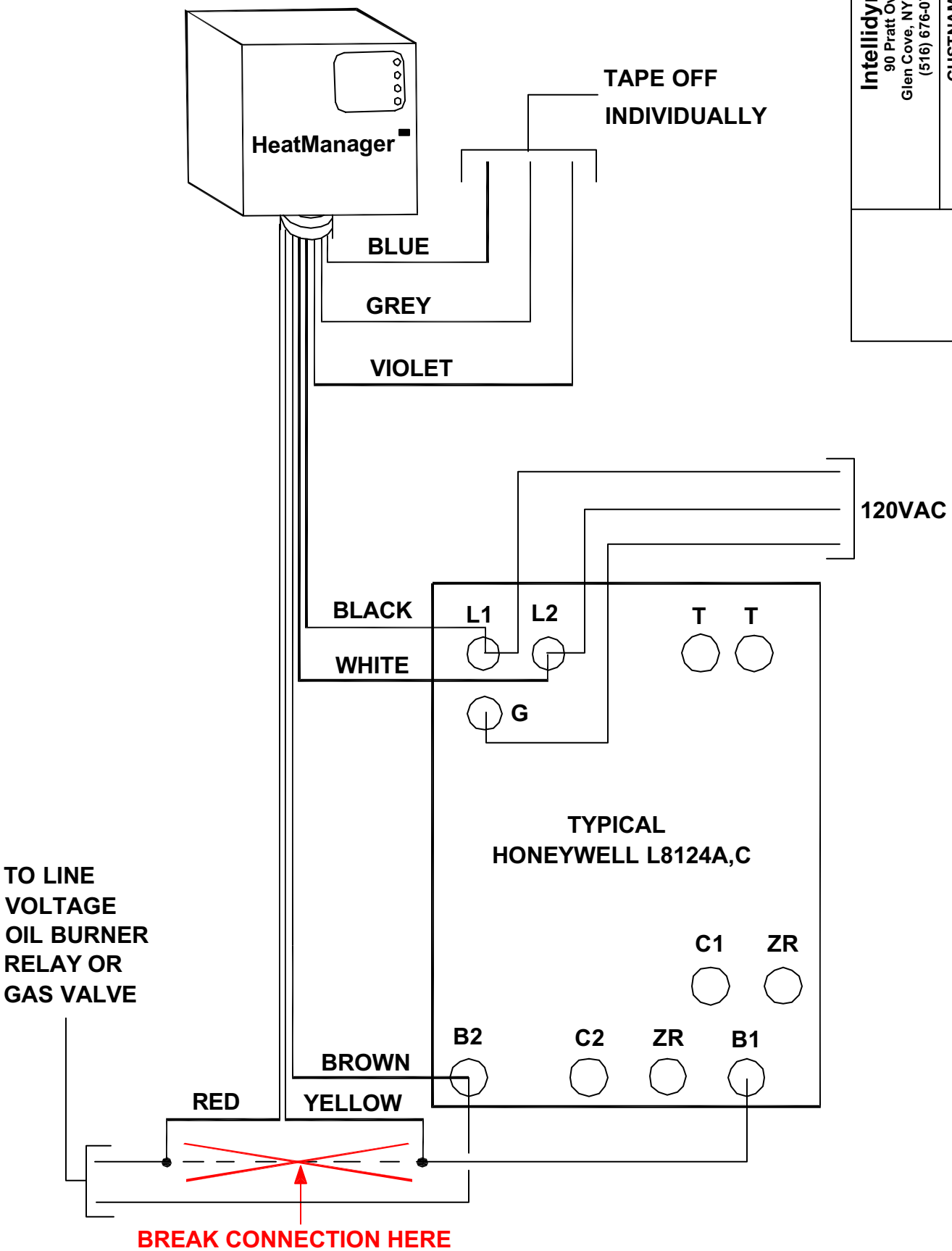
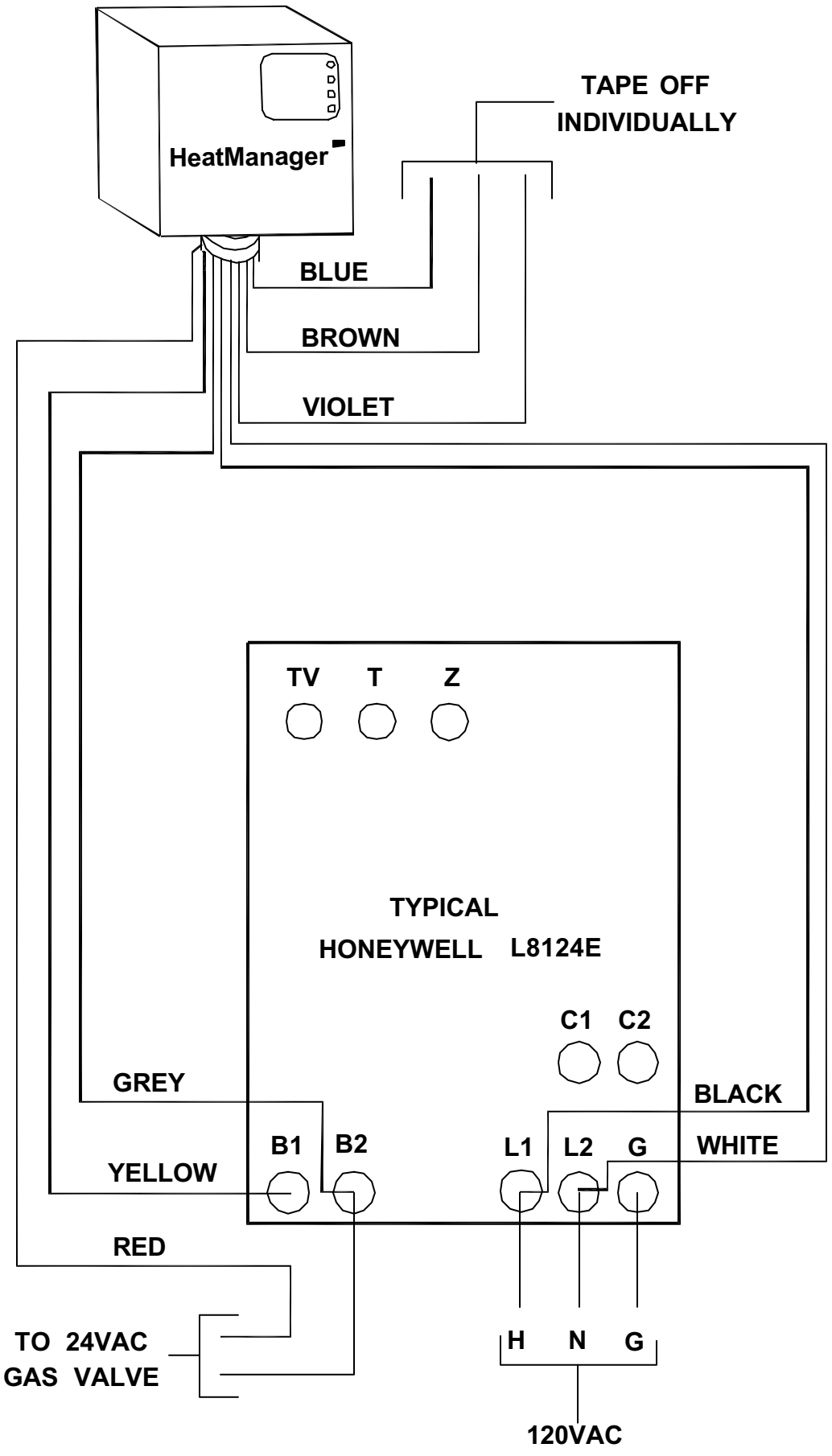
CUSTNAME
DWGDESC

DATE: DATE

DWG# DWG. #



Beckett HeatManager with Honeywell L8124E



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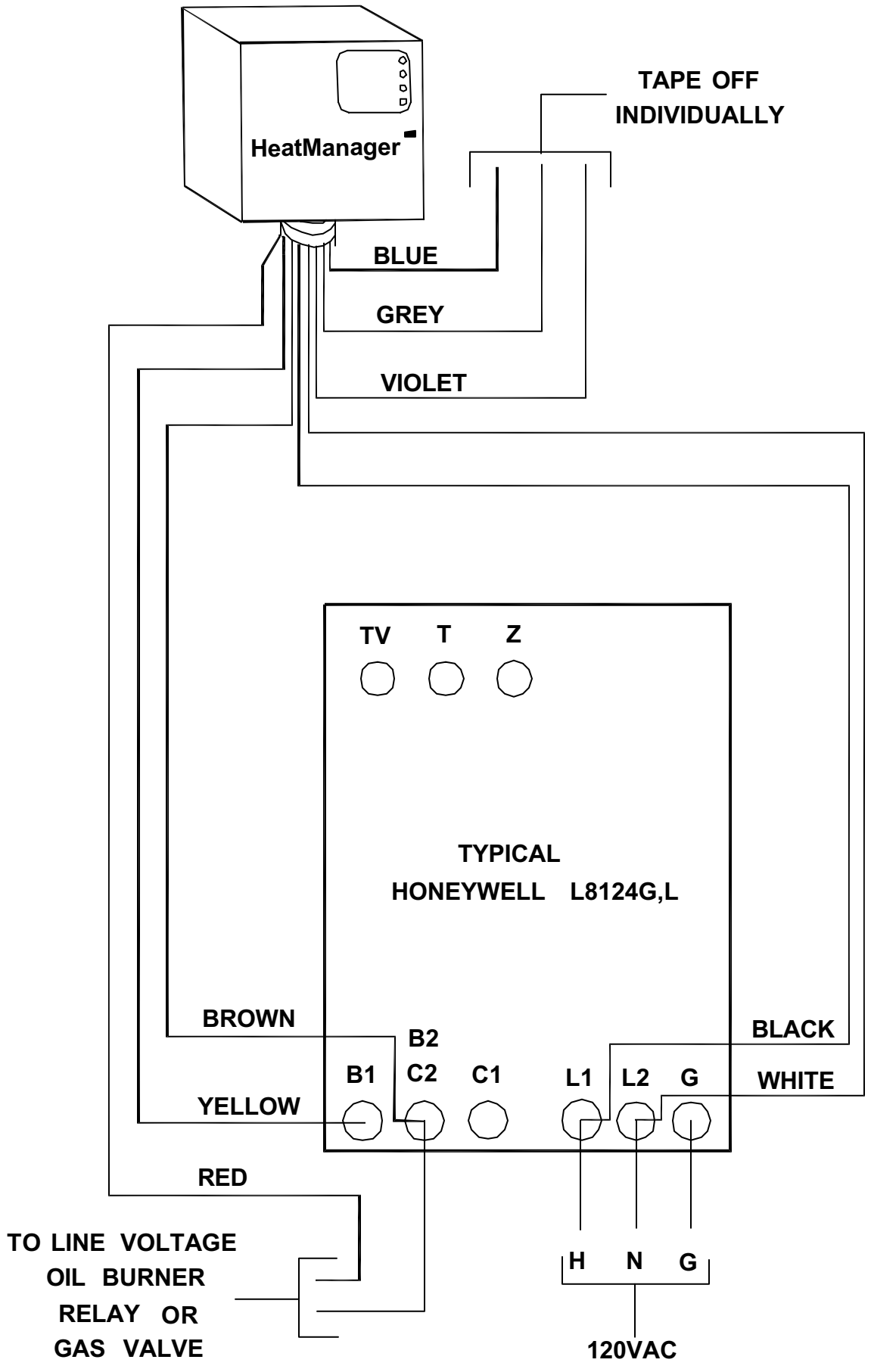
DATE: DATE

DWG. # DWG#

Beckett HeatManager with Honeywell L8124G,L



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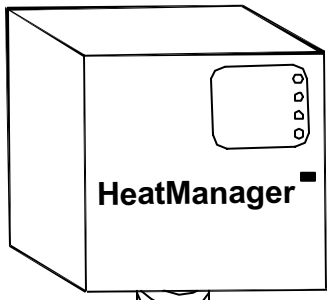
DWG. #

Beckett HeatManager with Honeywell L8148A



TAPE OFF
INDIVIDUALLY

BLUE

GREY

VIOLET

WHITE

BLACK

G L1 L2 T T

120
VAC

G
H
N

TYPICAL
HONEYWELL L8148A

BROWN

YELLOW

C1 C2 B1 B2

TO LINE
VOLTAGE
OIL BURNER
RELAY OR
GAS VALVE

RED

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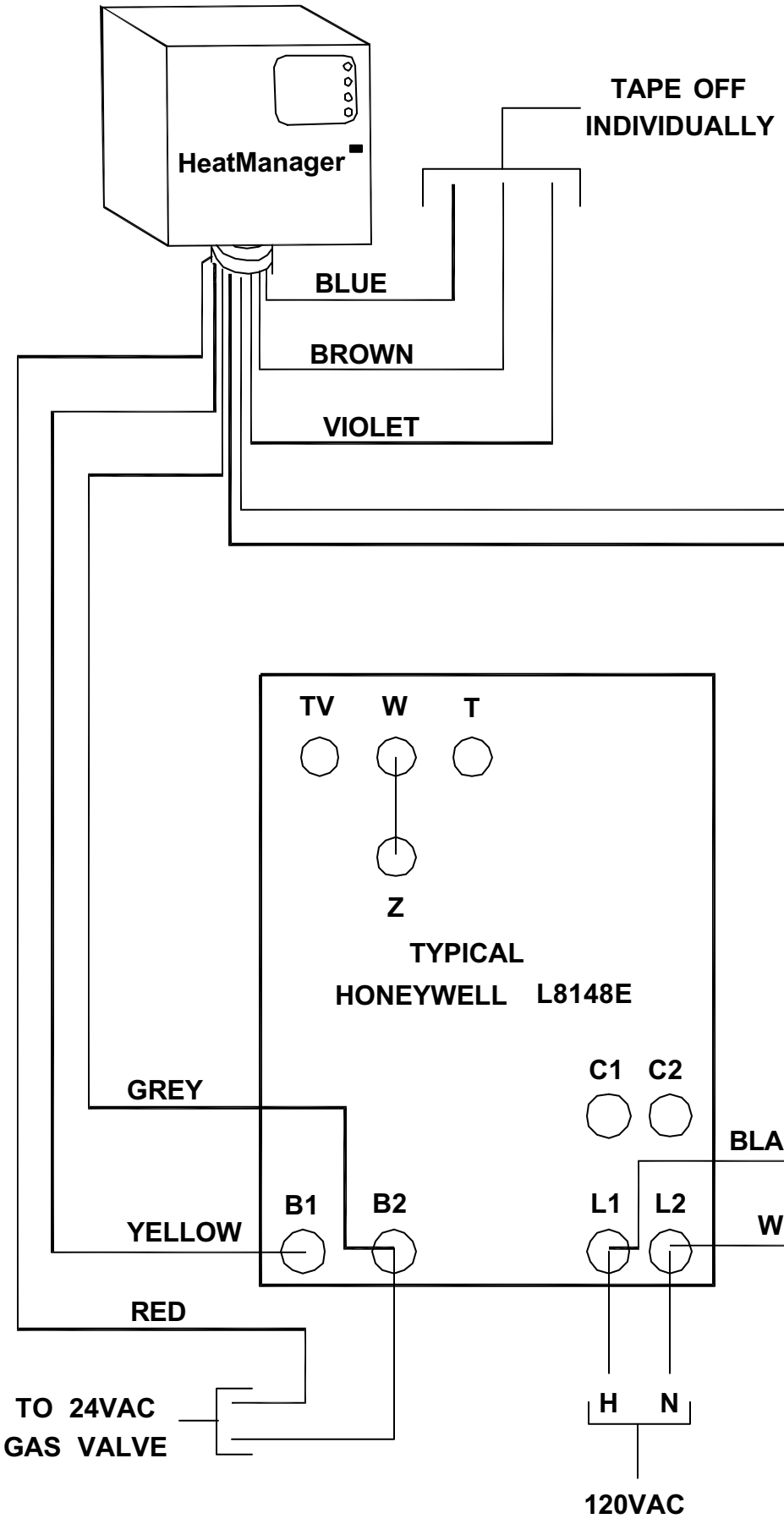
CUSTNAME
DWGDESC

DATE
DATE:
DWG#
DWG. #

Beckett HeatManager with Honeywell L8148E



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CUSTNAME
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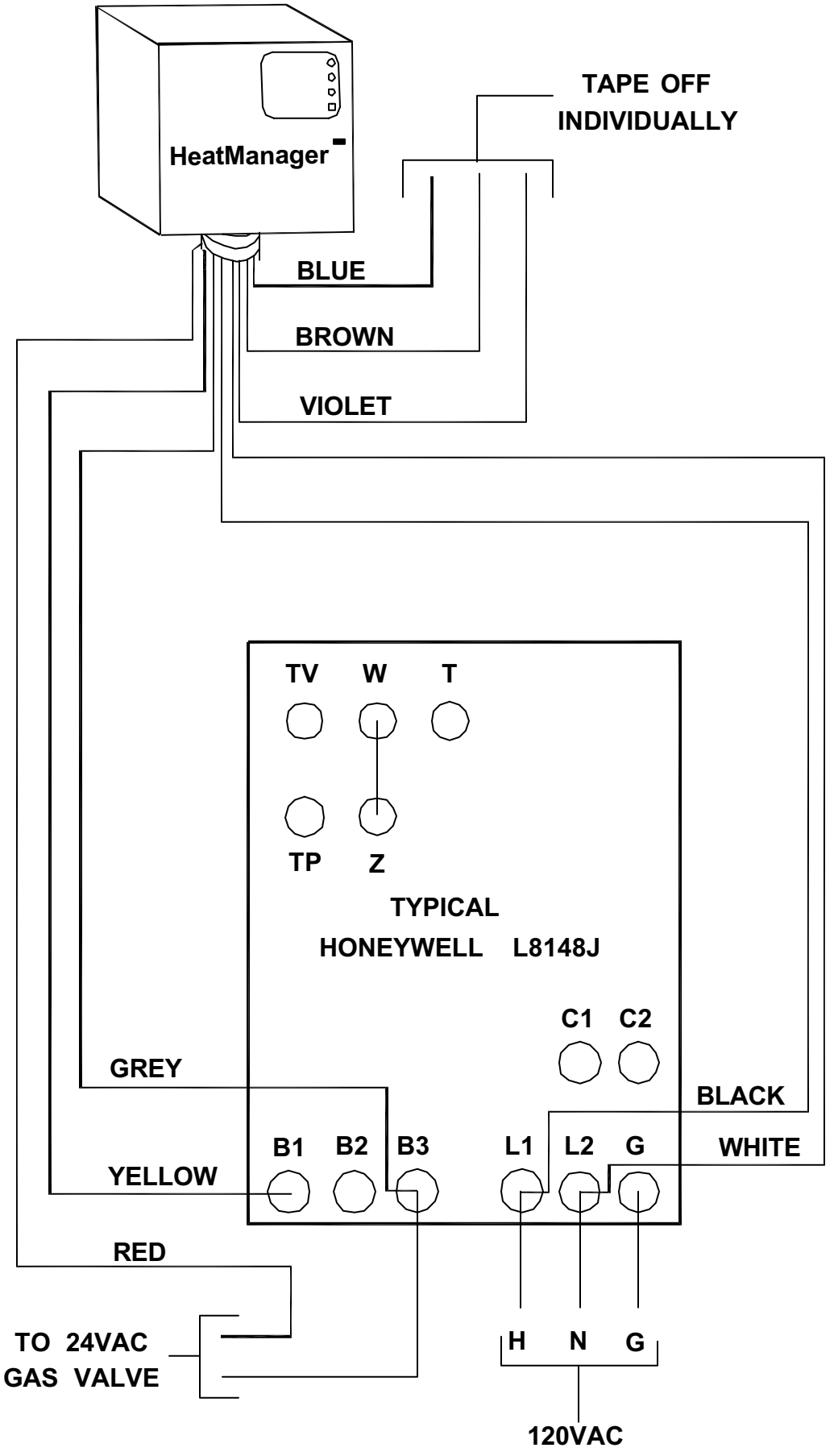
DATE: DATE

DWG. # DWG#

Beckett HeatManager with Honeywell L8148J



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CUSTNAME
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DATE
DATE:
DWG#
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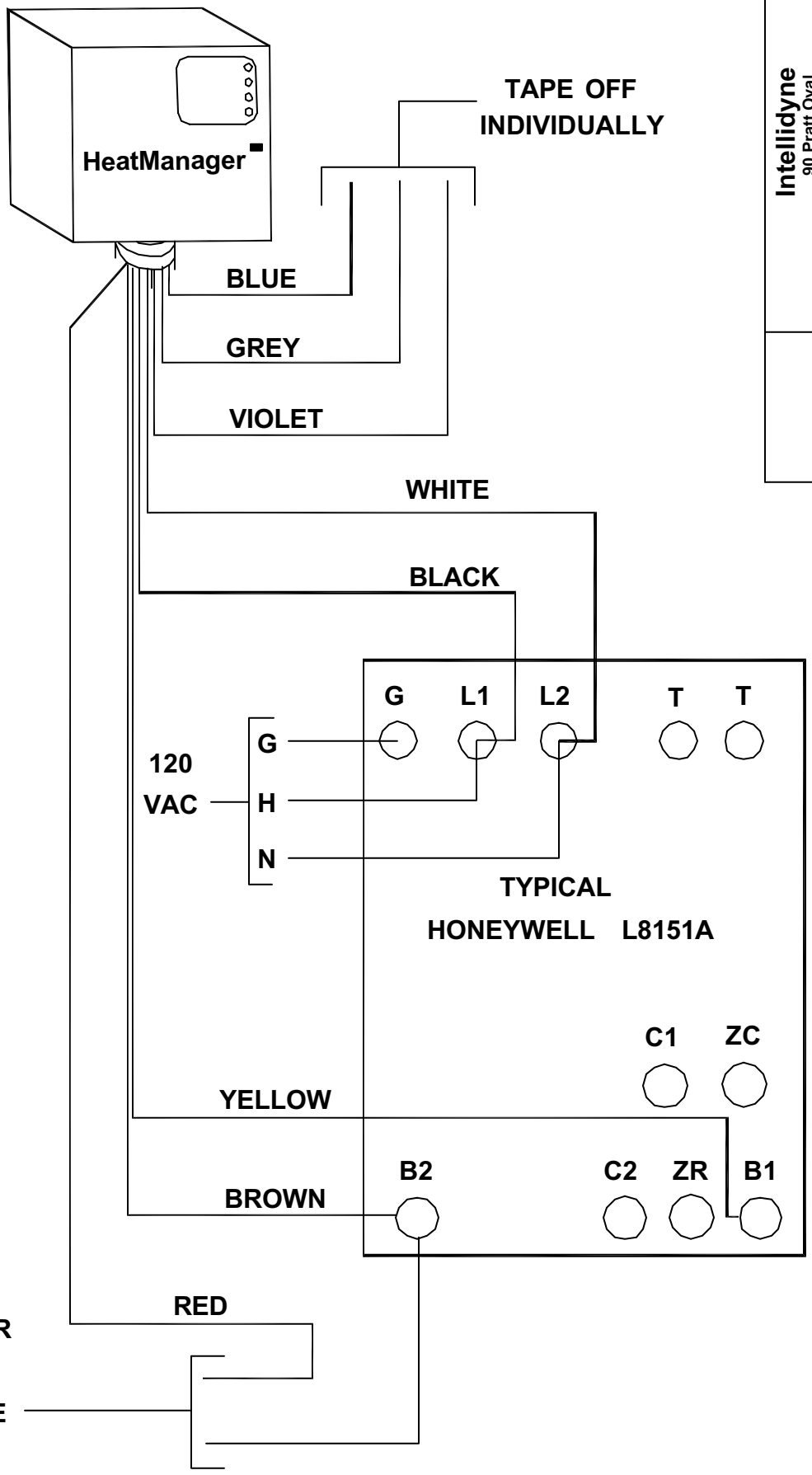
Beckett HeatManager with Honeywell L8151A



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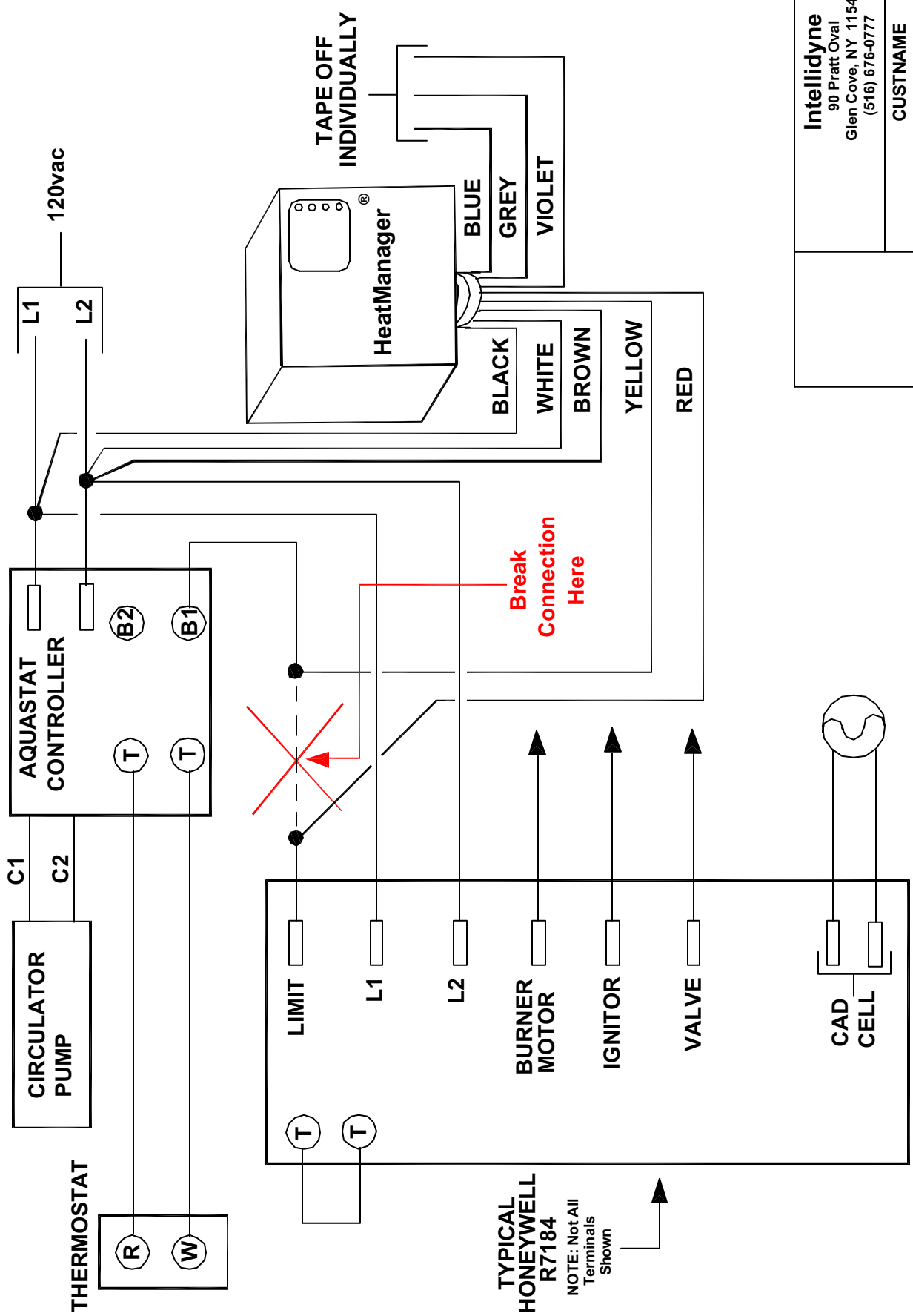
Beckett HeatManager with Honeywell R7184A,B,P,U

Electronic Oil Primary



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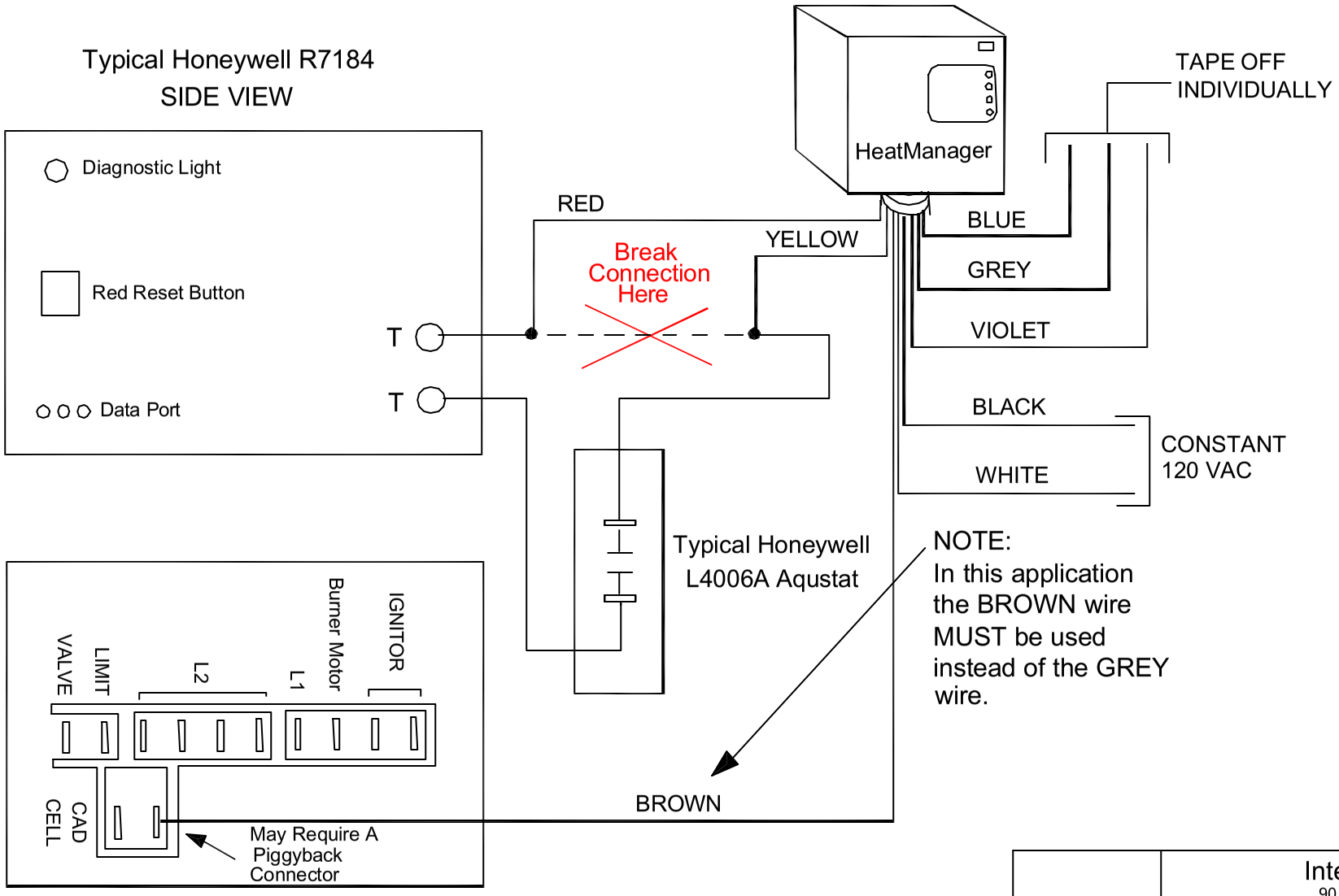
DWG. # DWG# DATE: DATE

Diagram "C"



Beckett HeatManager with Honeywell
R7184A,B,P,U Electronic Oil Primary
When Aquastat Is Wired 24VAC

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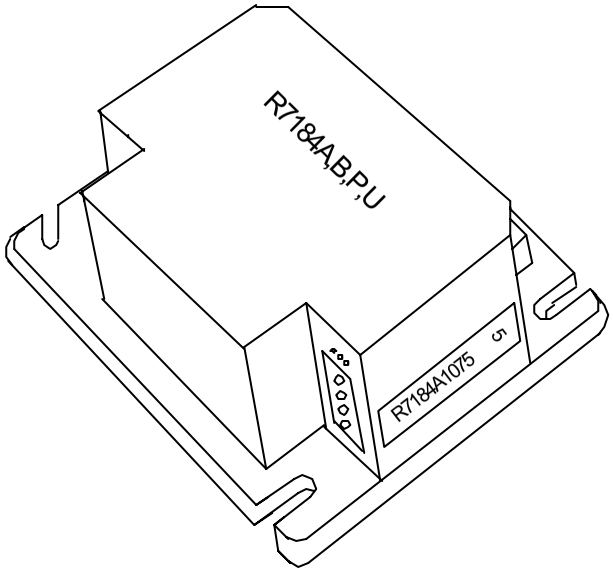
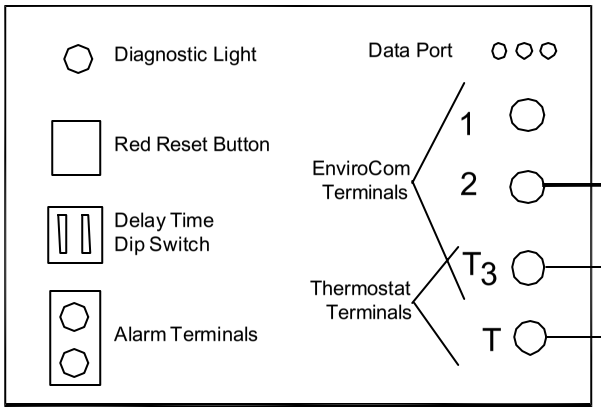
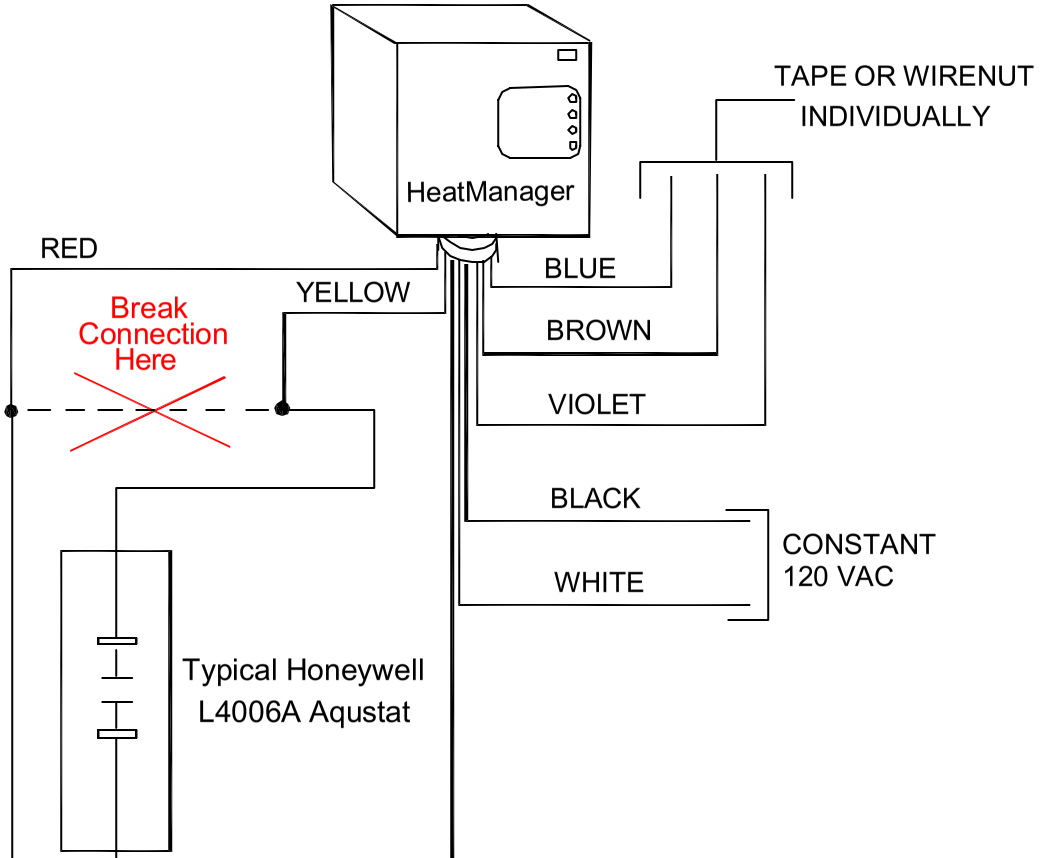
DWG. # DWG#	DATE: DATE

Beckett HeatManager with Honeywell R7184A,B,P,U "SERIES 5" Electronic Oil Primary When Aquastat Is Wired 24VAC



Typical Honeywell R7184
SIDE VIEW





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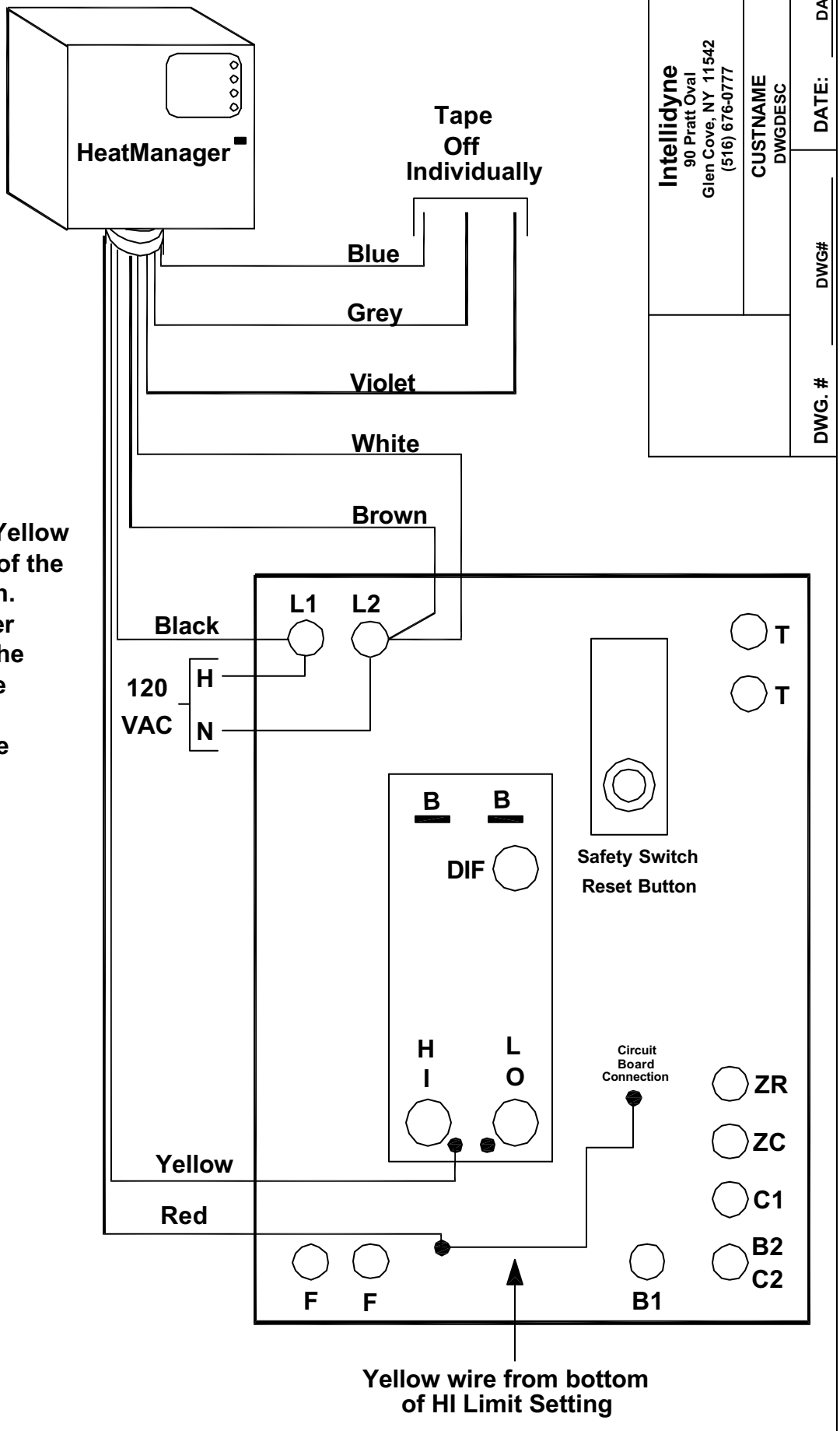
Beckett HeatManager with Honeywell R8182D



INSTRUCTIONS

Remove the existing Yellow wire from the bottom of the HI Limit Setting switch. Insert the HeatManager "YELLOW" wire into the wire hole. Connect the HeatManager "RED" wire to the Yellow wire that was removed.

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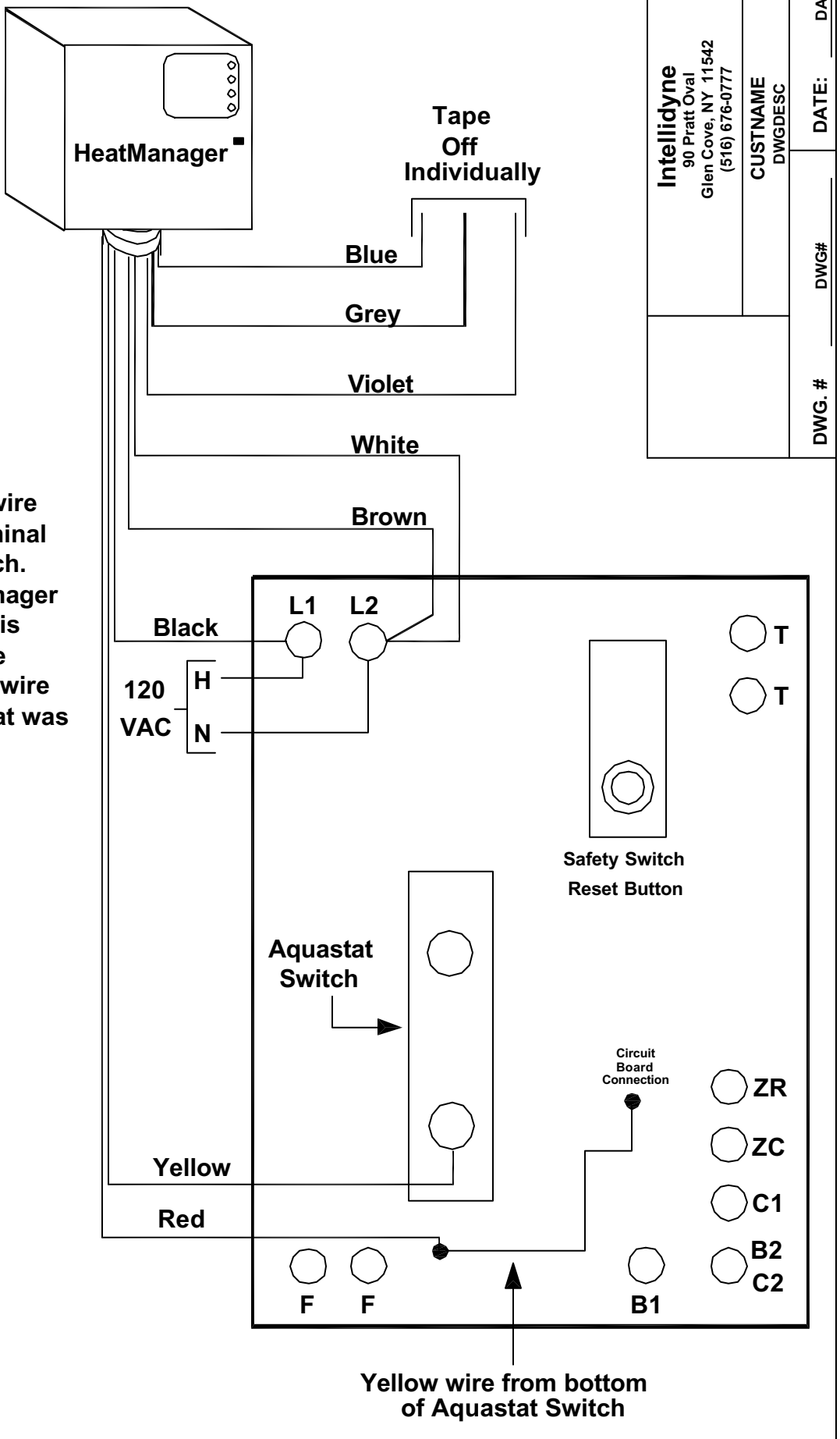
DWG#
DWG. #

Beckett HeatManager with Honeywell R8182E



INSTRUCTIONS

Remove the Yellow wire from the bottom terminal of the Aquastat Switch. Connect the HeatManager "YELLOW" wire to this terminal. Connect the HeatManager "RED" wire to the Yellow wire that was removed

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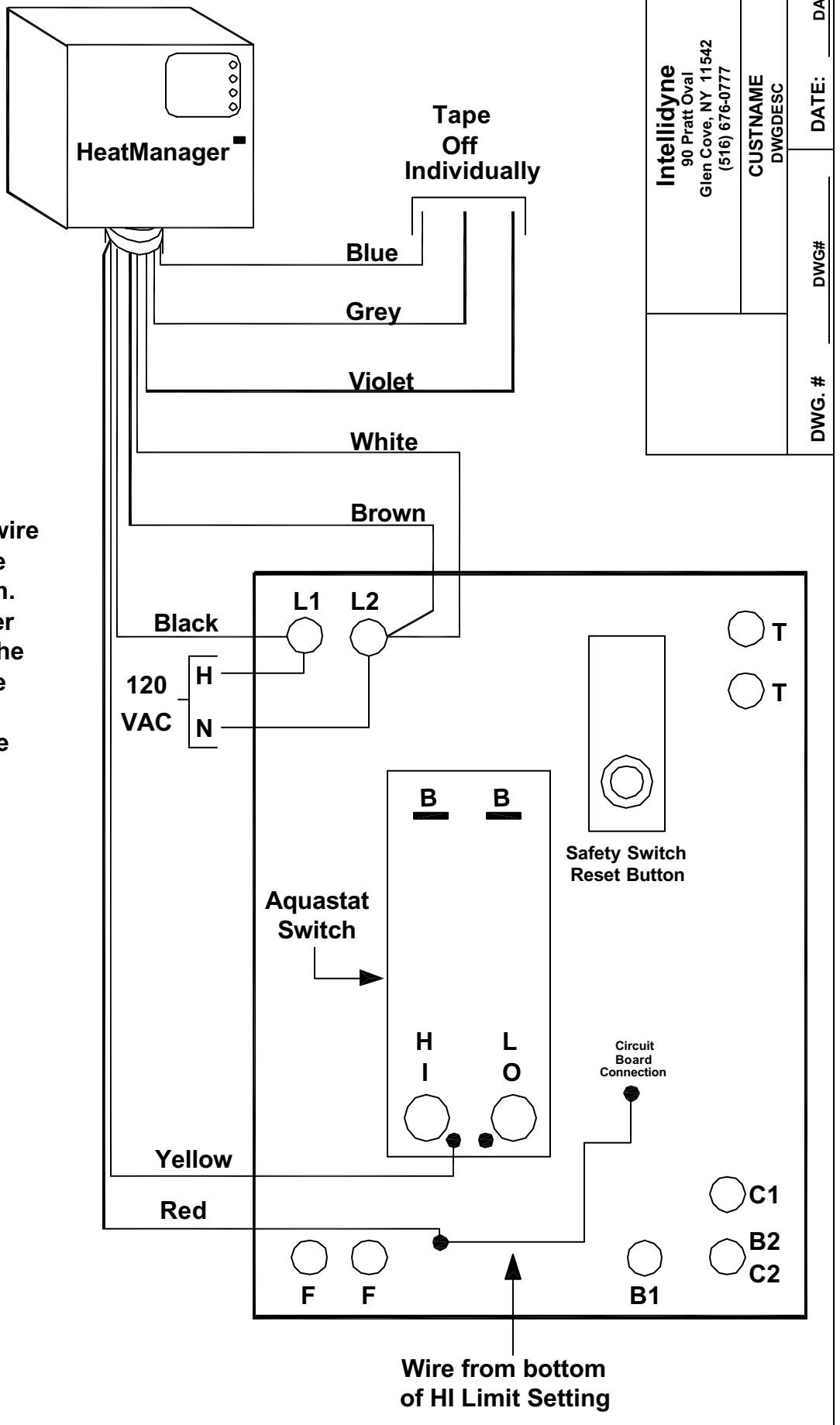
DWG#
DWG. #

Beckett HeatManager with Honeywell R8182F



INSTRUCTIONS

Remove the existing wire from the bottom of the HI Limit Setting switch. Insert the HeatManager "YELLOW" wire into the wire hole. Connect the HeatManager"RED" wire to the Yellow wire that was removed.

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DWG# DWG. #

DIAGRAM "A"

Beckett HeatManager with Honeywell R8184G, K, L or N Cad Cell Relay

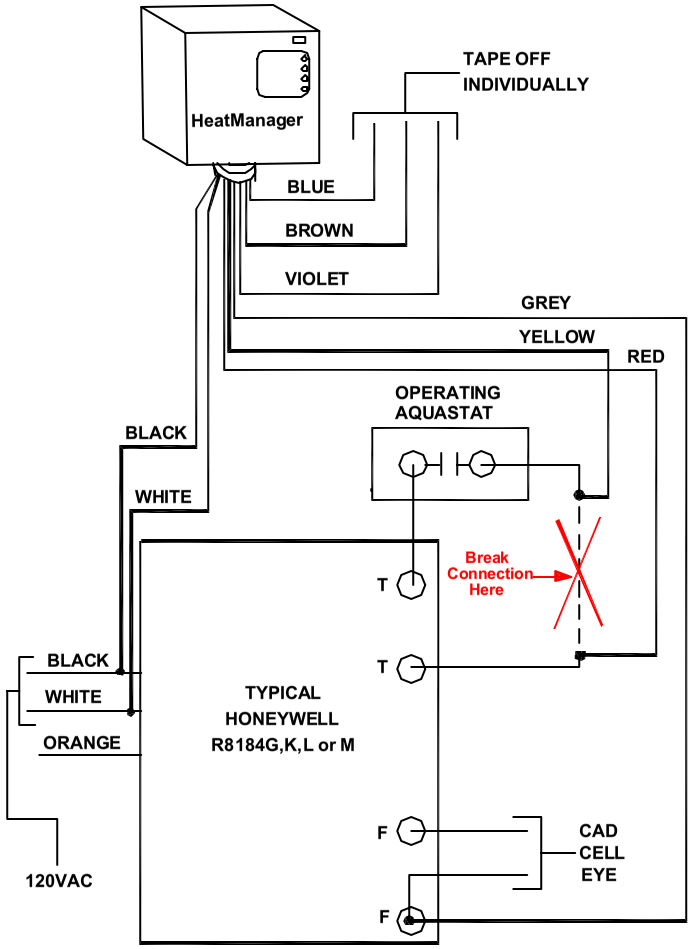
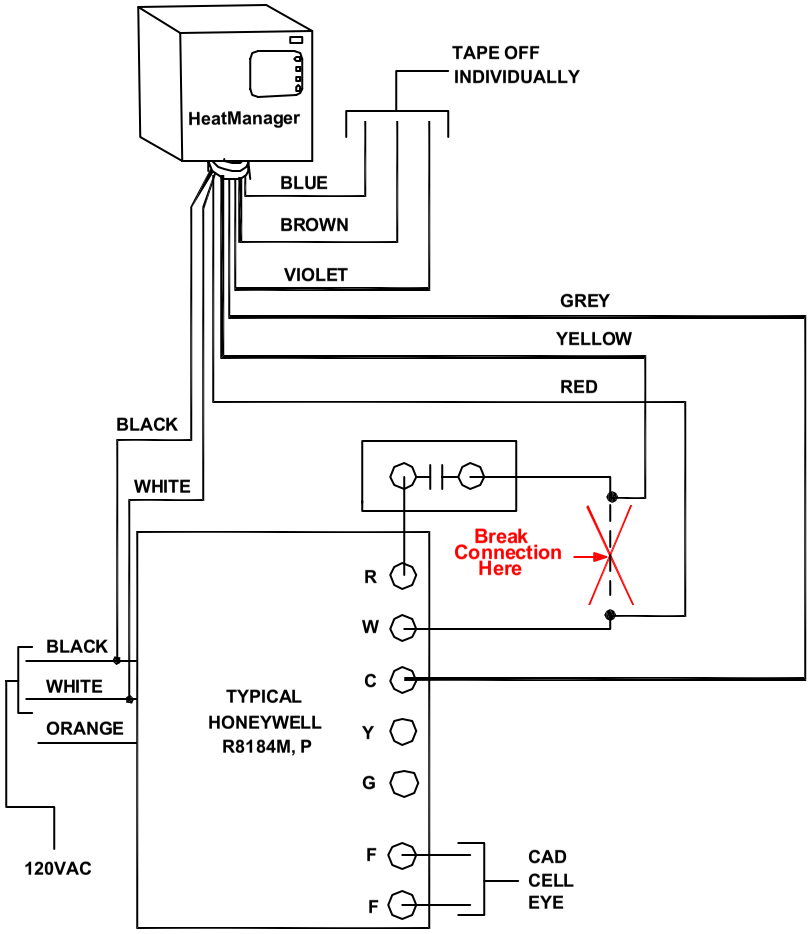


DIAGRAM "B"

Beckett HeatManager with Honeywell R8184M or P Cad Cell Relay



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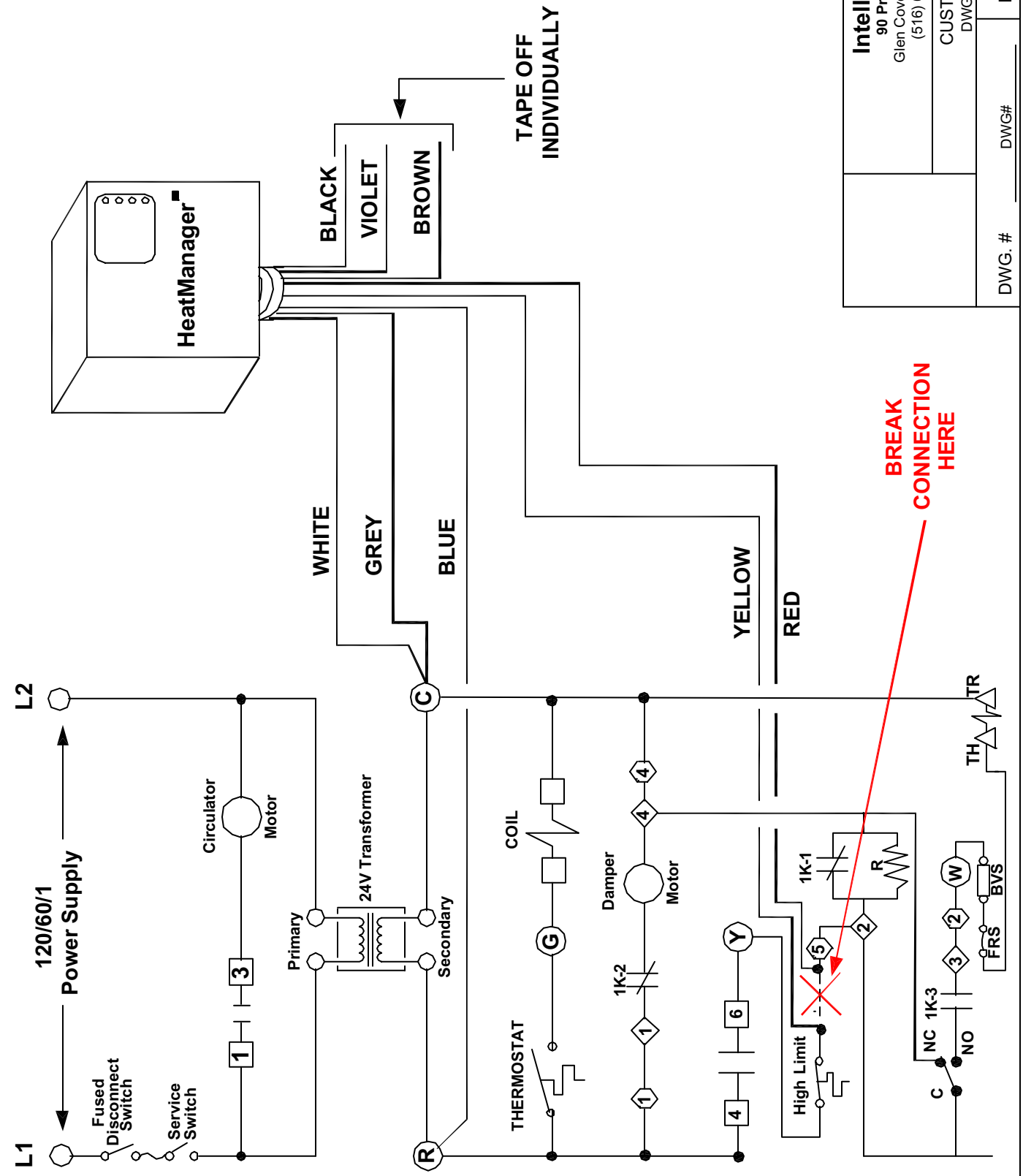
DWG. # DWG#	DATE: DATE

Beckett HeatManager With Honeywell R8285D Relay/Transformer Package When Used On Boilers



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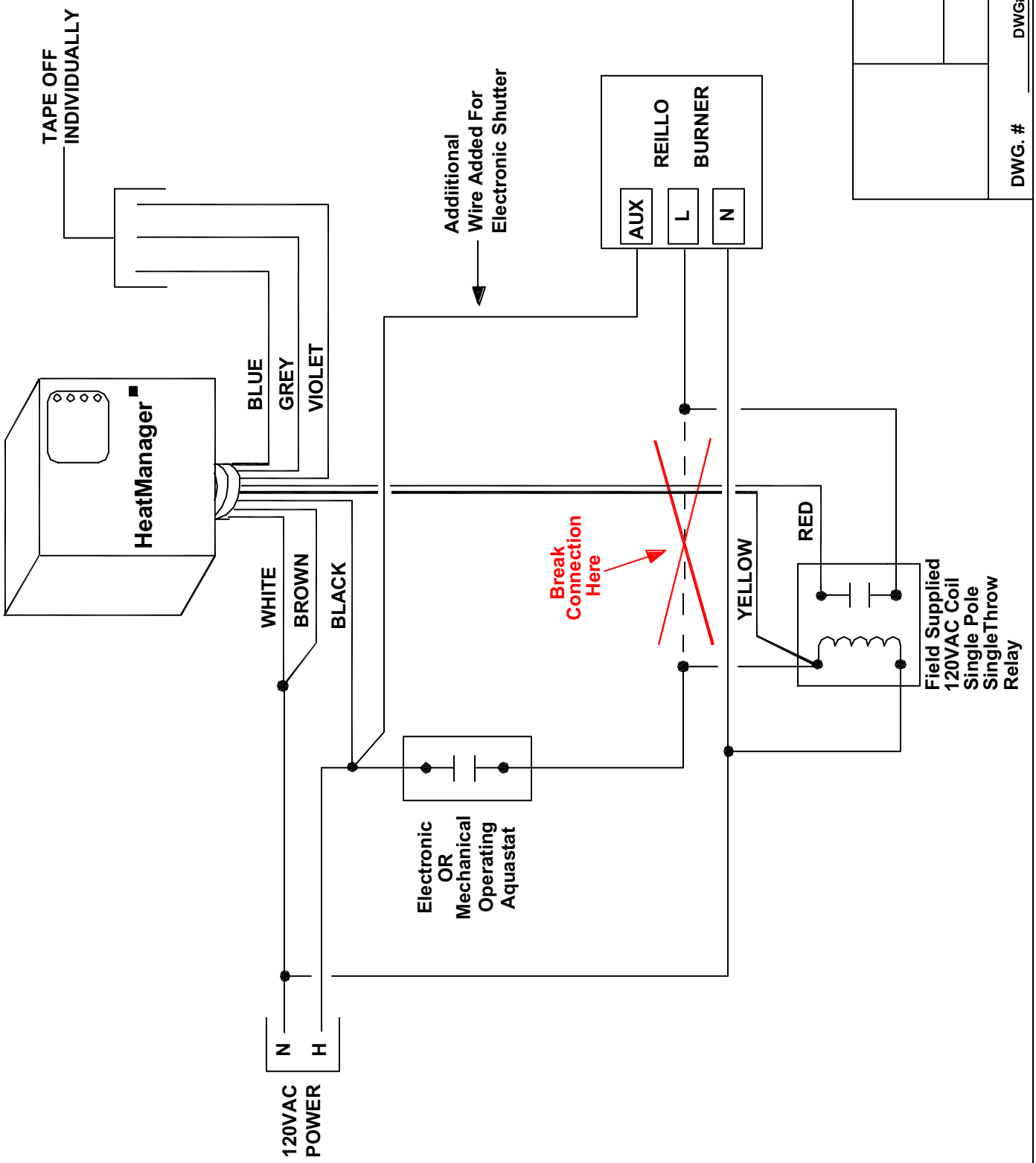
Beckett HeatManager with Riello 40F5 Burner
(if experiencing voltage feedback from burner on IntelliCon "RED" Wire)



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DWG. # DWG# DATE: DATE

Wiring the *IntelliCon*® HW or LCH with A Cad Cell Relay

A boiler with the operating limit control (aqua-stat) wired to "T T" on the cad cell relay does not have to be rewired to accommodate the installation of the Model HW or LCH even though the internal transformer of the cad cell relay is not accessible for 24vac control wiring purposes.

DO NOT connect the HW or LCH control circuit at the orange lead on the cad cell relay as the burner will go off on "safety". Wiring the HW or LCH control circuit at the black lead of the cad cell relay will remove power to the cad cell relay transformer.

If the "TT" terminals have a "jumper" across them, then the operating aqua-stat is line voltage and the HW or LCH can be wired 115vac for the power and the control circuit.

Below are the factory authorized wiring diagrams to accomplish the installation:

Diagram "A": Honeywell R8184 G, K, L, N

Diagram "B": Honeywell R8184 M, P

Diagram "C": Honeywell R7184 A, B, P, U

Diagram "D": Honeywell R7184 A, B, P, U, "REVISION 5"

3/06/06

DIAGRAM "A"

IntelliCon HW with Honeywell R8184G, K, L or N Cad Cell Relay

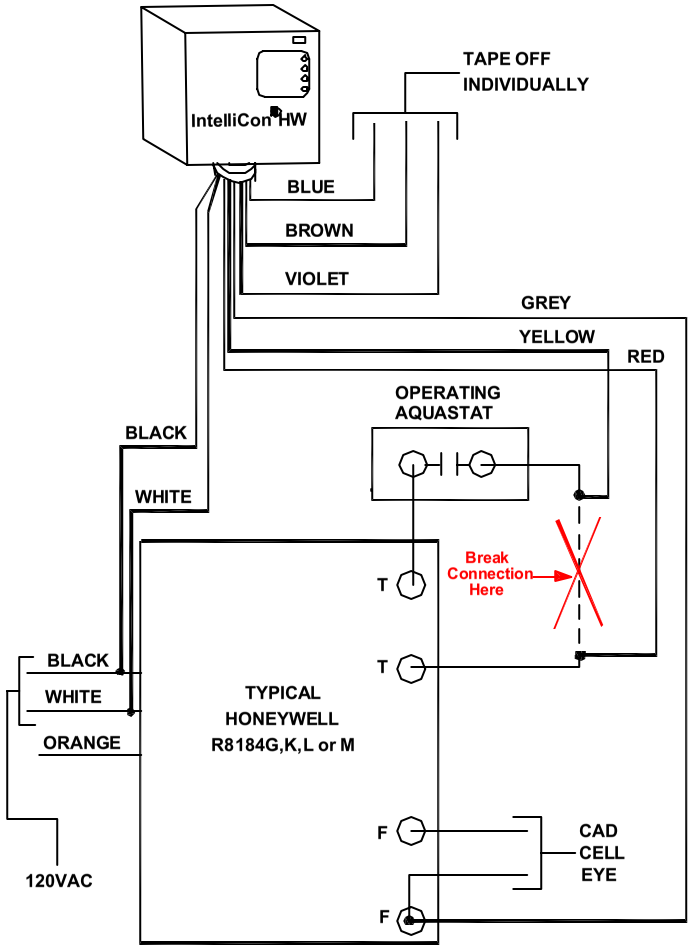

DIAGRAM "B"

IntelliCon HW with Honeywell R8184M or P Cad Cell Relay

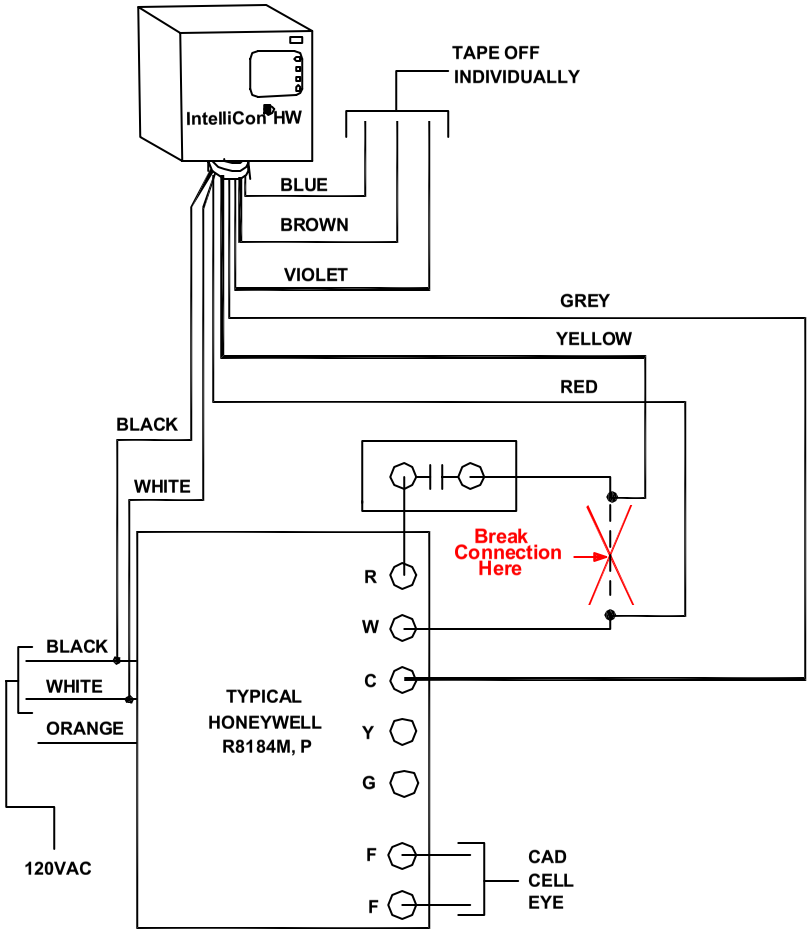

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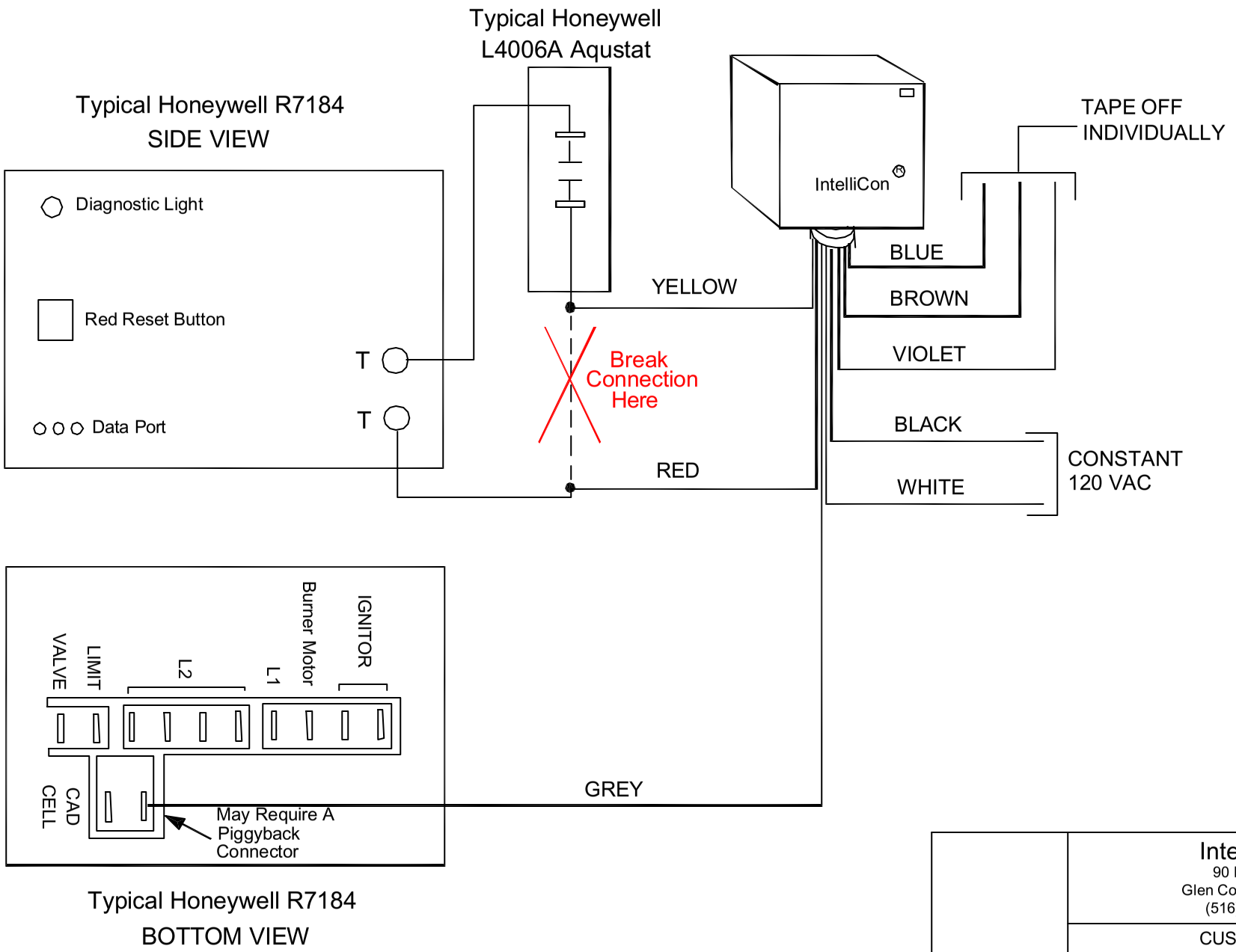
Diagram "C"



IntelliCon HW LCH, LCS with Honeywell
R7184A,B,P,U Electronic Oil Primary
When Aquastat Is Wired 24VAC

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DWG. # DWG#	DATE: DATE

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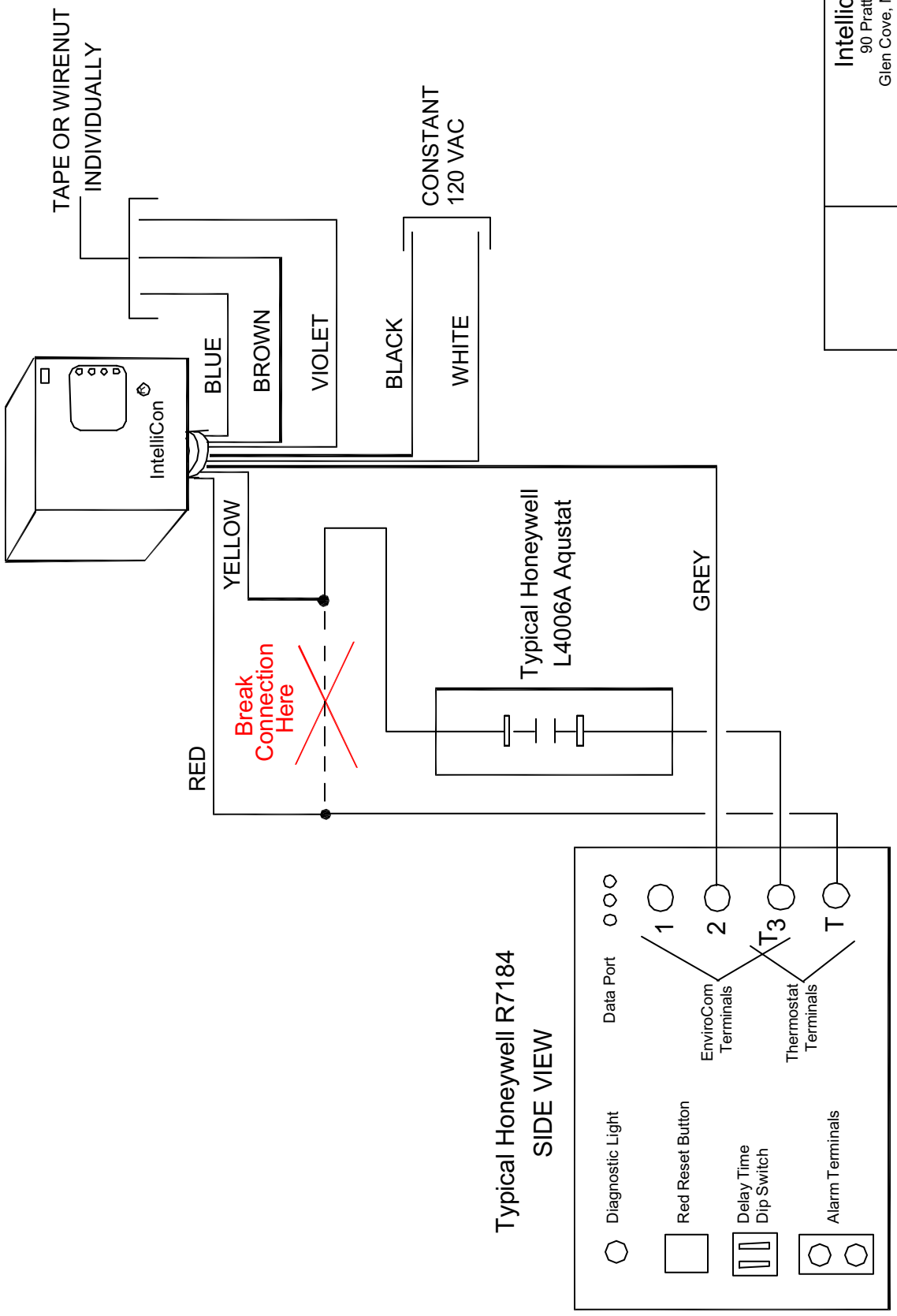
IntelliCon HW, LCH, LCS with Honeywell R7184A,B,P,U "SERIES 5" Electronic Oil Primary When Aquastat Is Wired 24VAC

Diagram "D"



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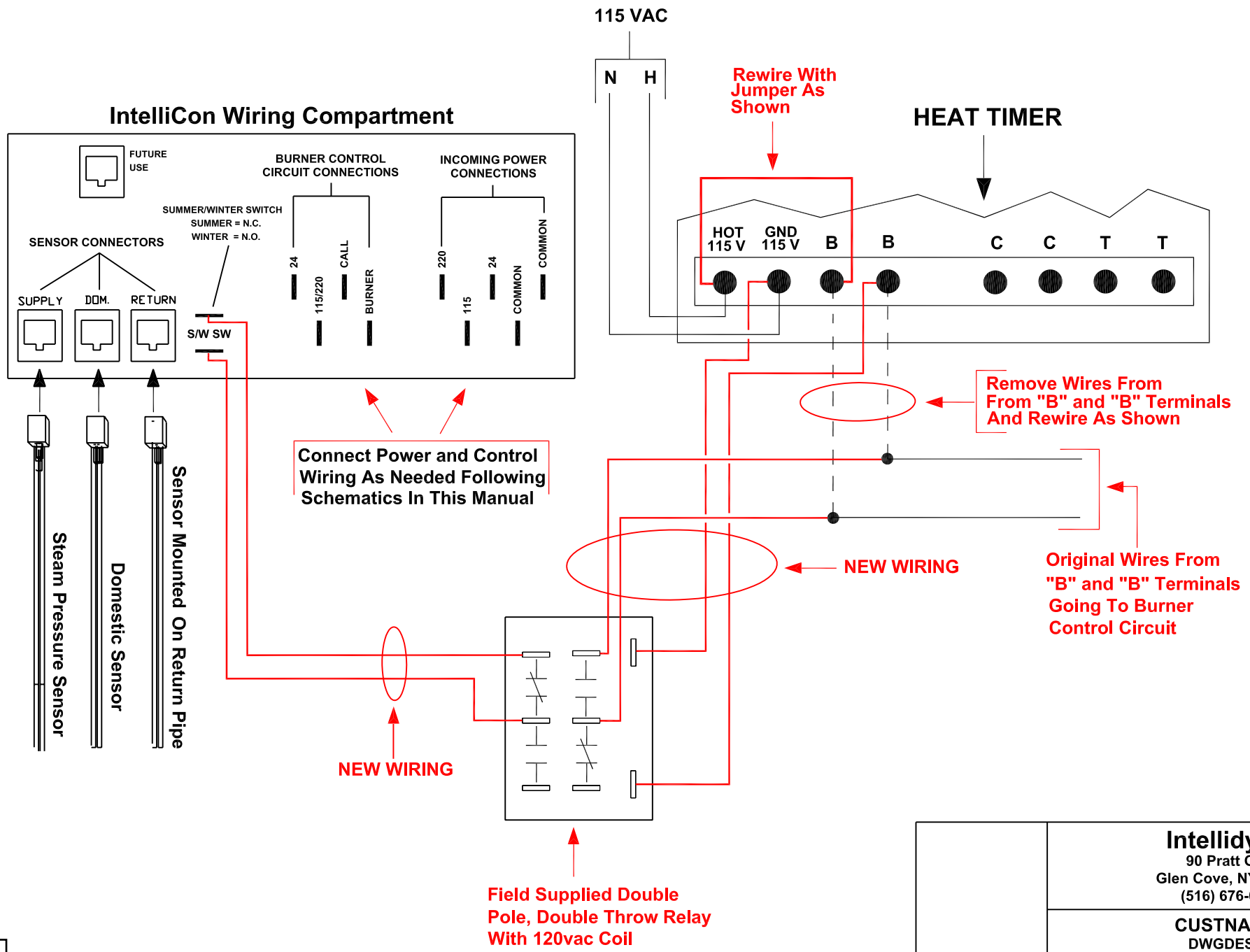
IntelliCon CHS or CHW With Mechanical "Heat Timer"

(With Internal Domestic Hot Water Coil)



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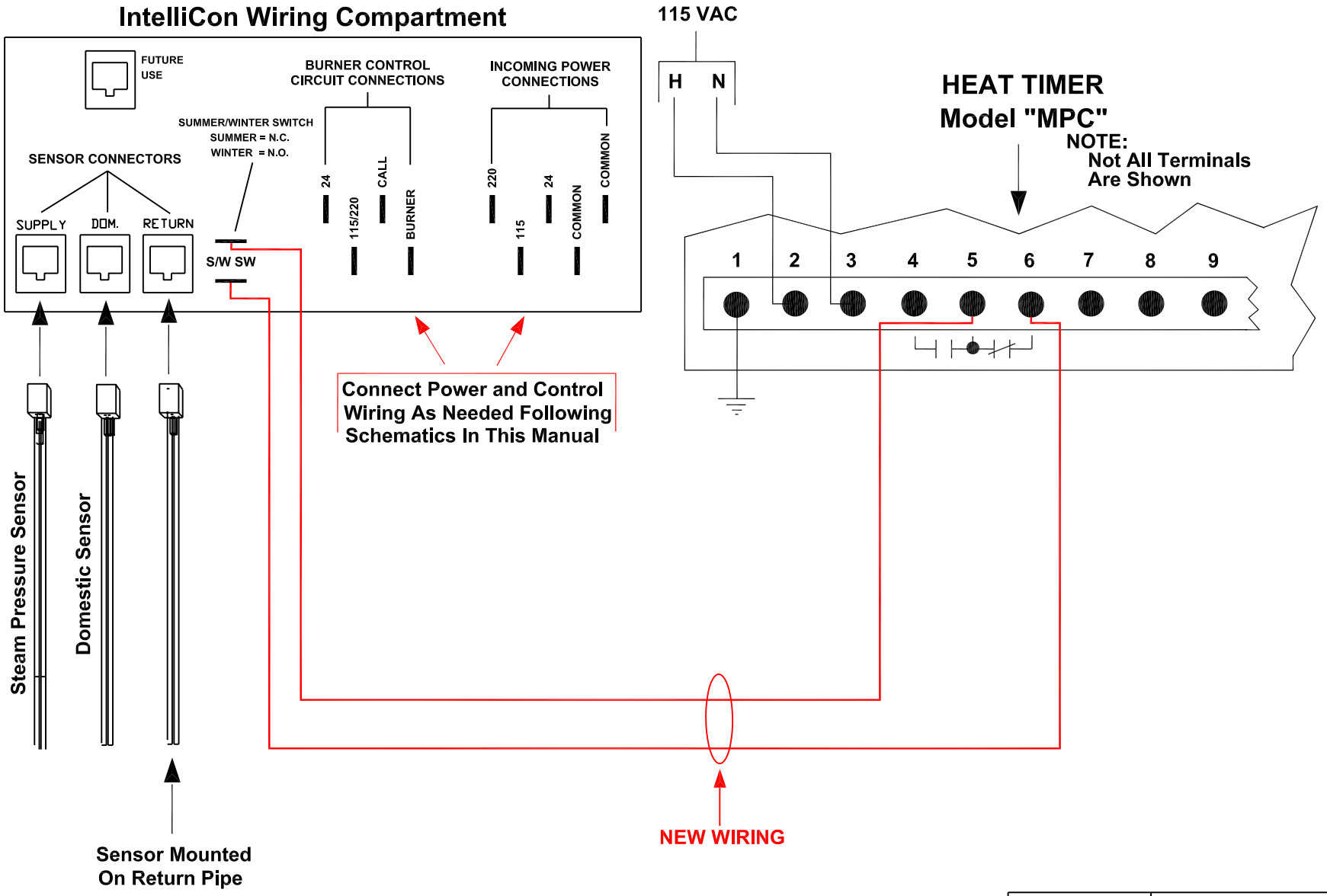
DATE: DATE

IntelliCon CHS or CHW With Heat Timer Model "MPC"

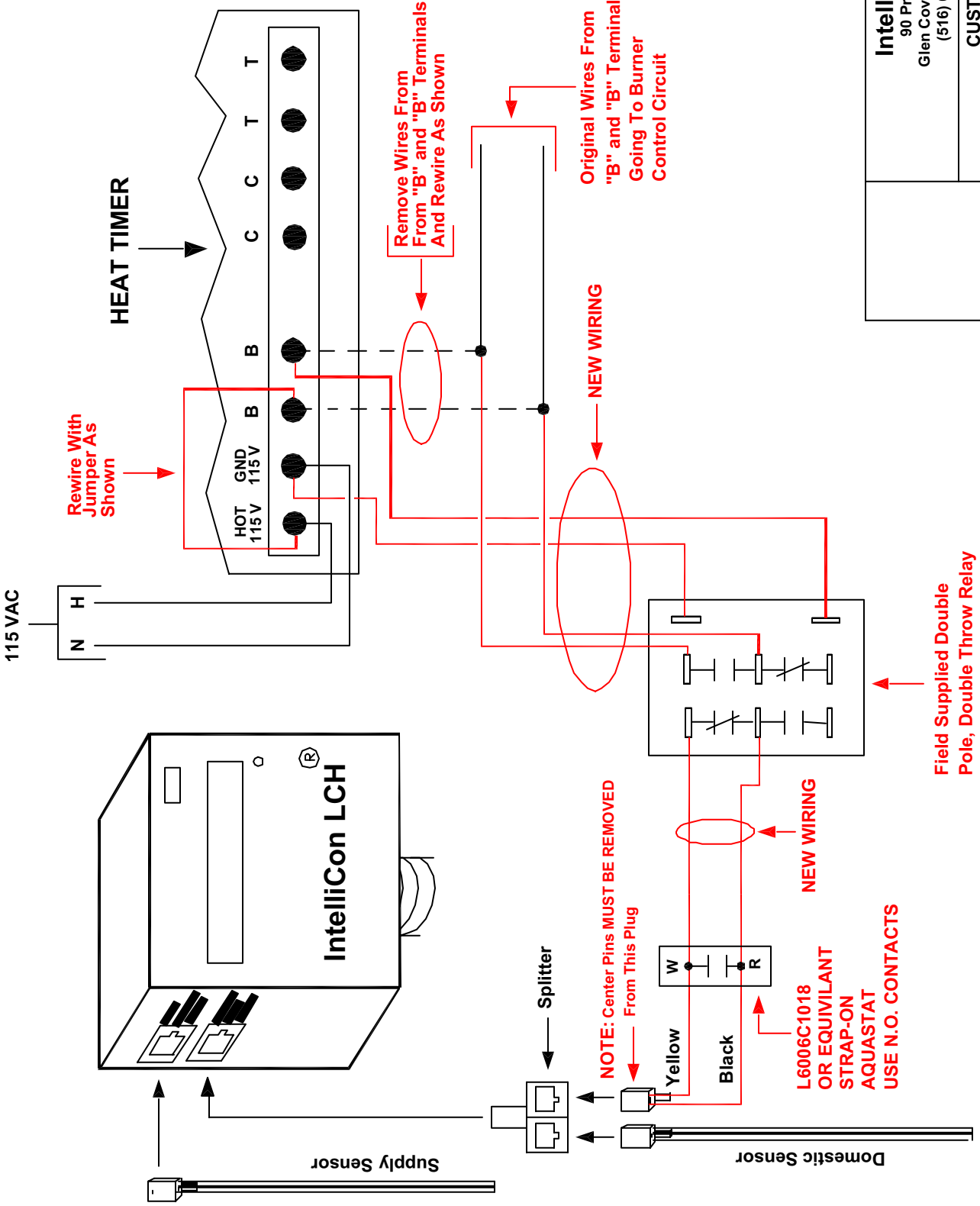
(With Internal Domestic Hot Water Coil)



	Intellidyne 90 Pratt Oval Glen Cove, NY 11542 (516) 676-0777
	CUSTNAME DWGDESC
DWG. # DWG#	DATE: DATE

IntelliCon LCH With Mechanical "Heat Timer"

(With Internal Domestic Hot Water Coil)



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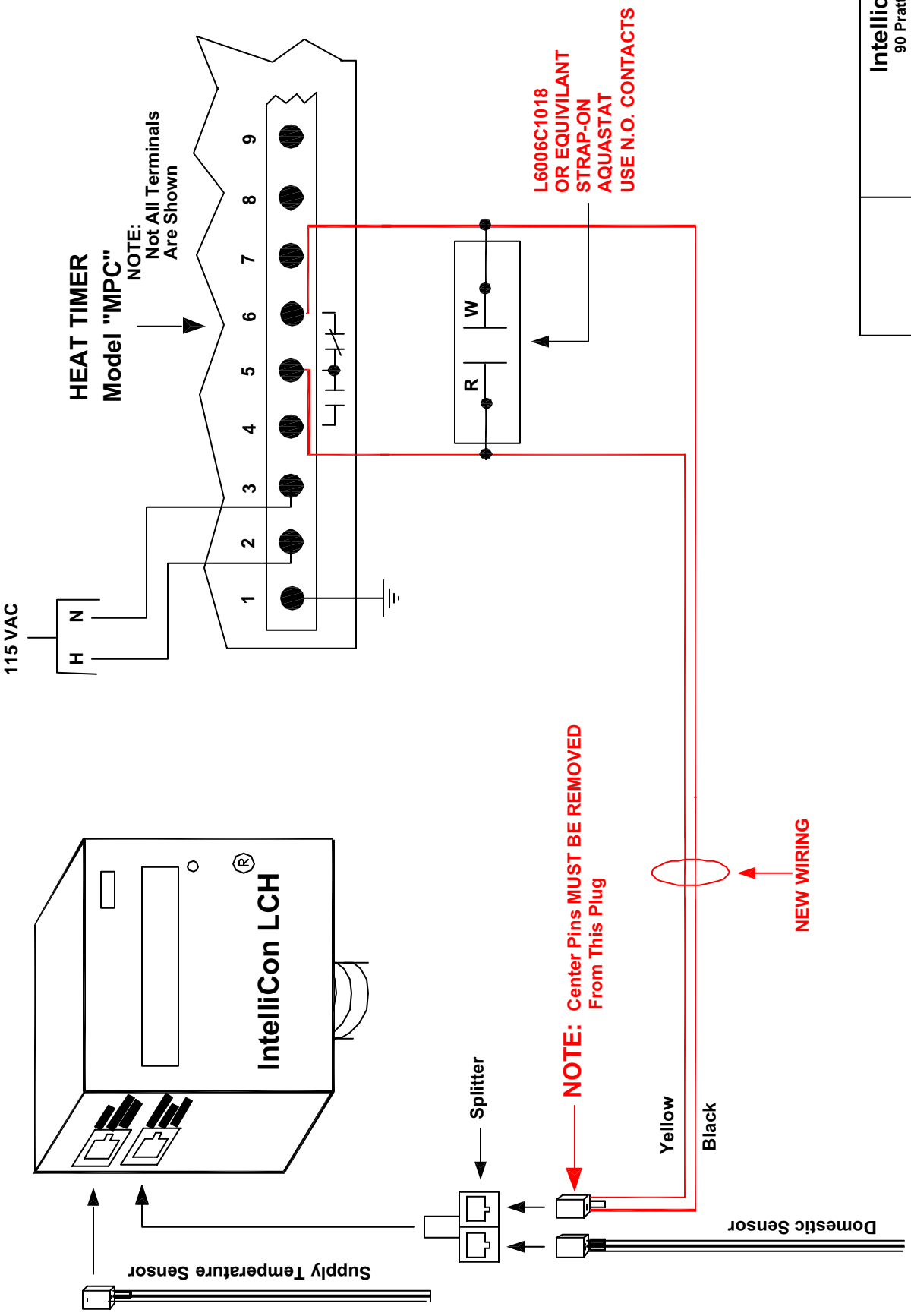
DWG. # DWG# DATE: DATE

IntelliCon LCH With Heat Timer Model "MPC"

(With Internal Domestic Hot Water Coil)



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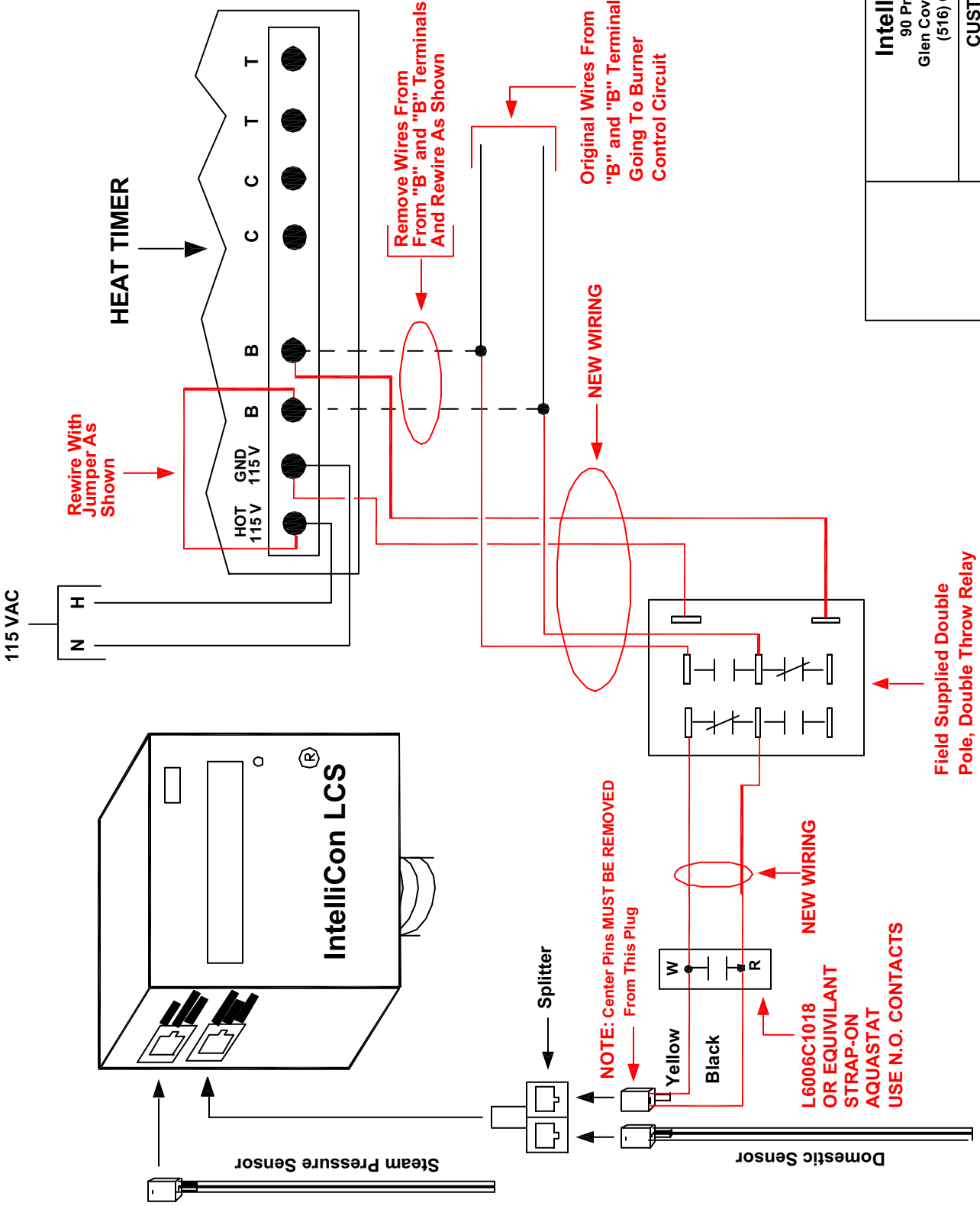
IntelliCon LCS With Mechanical "Heat Timer"

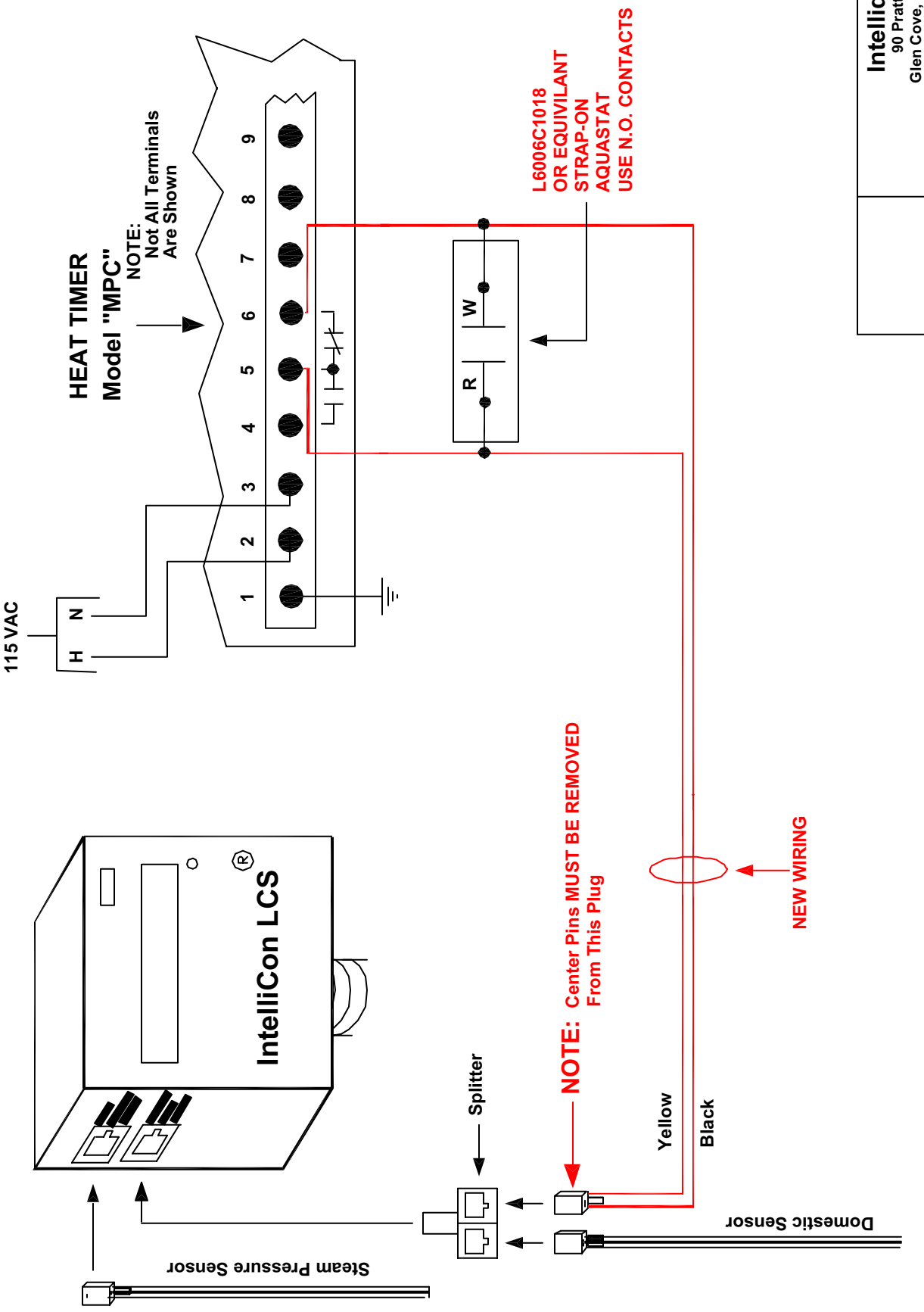
(With Internal Domestic Hot Water Coil)



Intellidyne 90 Pratt Oval Glen Cove, NY 11542 (516) 676-0777	CUSTNAME DWGDESC	DWG. # DWG# DATE: DATE

IntelliCon LCS With Heat Timer Model "MPC"

(With Internal Domestic Hot Water Coil)



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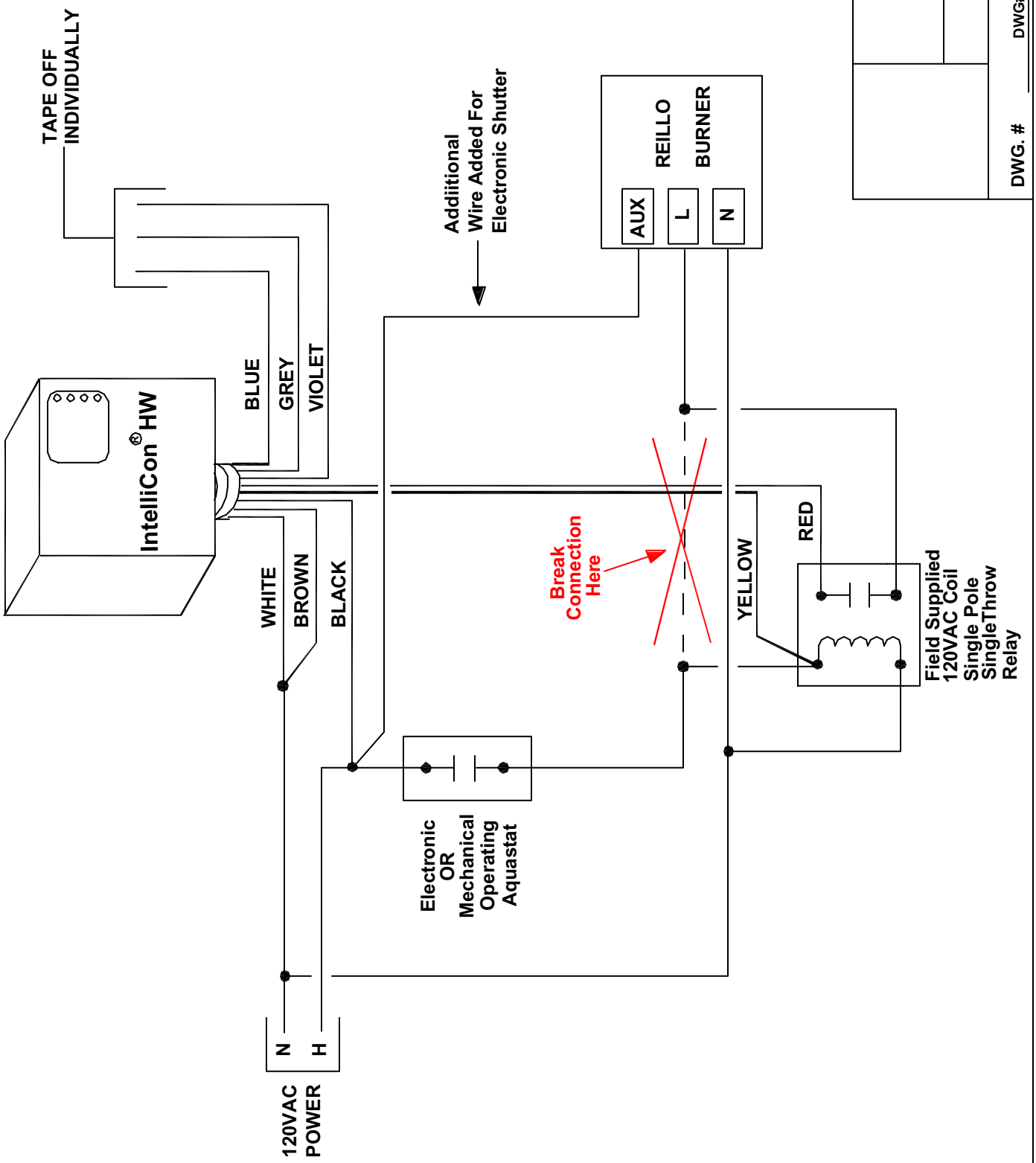
IntelliCon HW with Riello 40F5 Burner

(if experiencing voltage feedback from burner on IntelliCon "RED" Wire)



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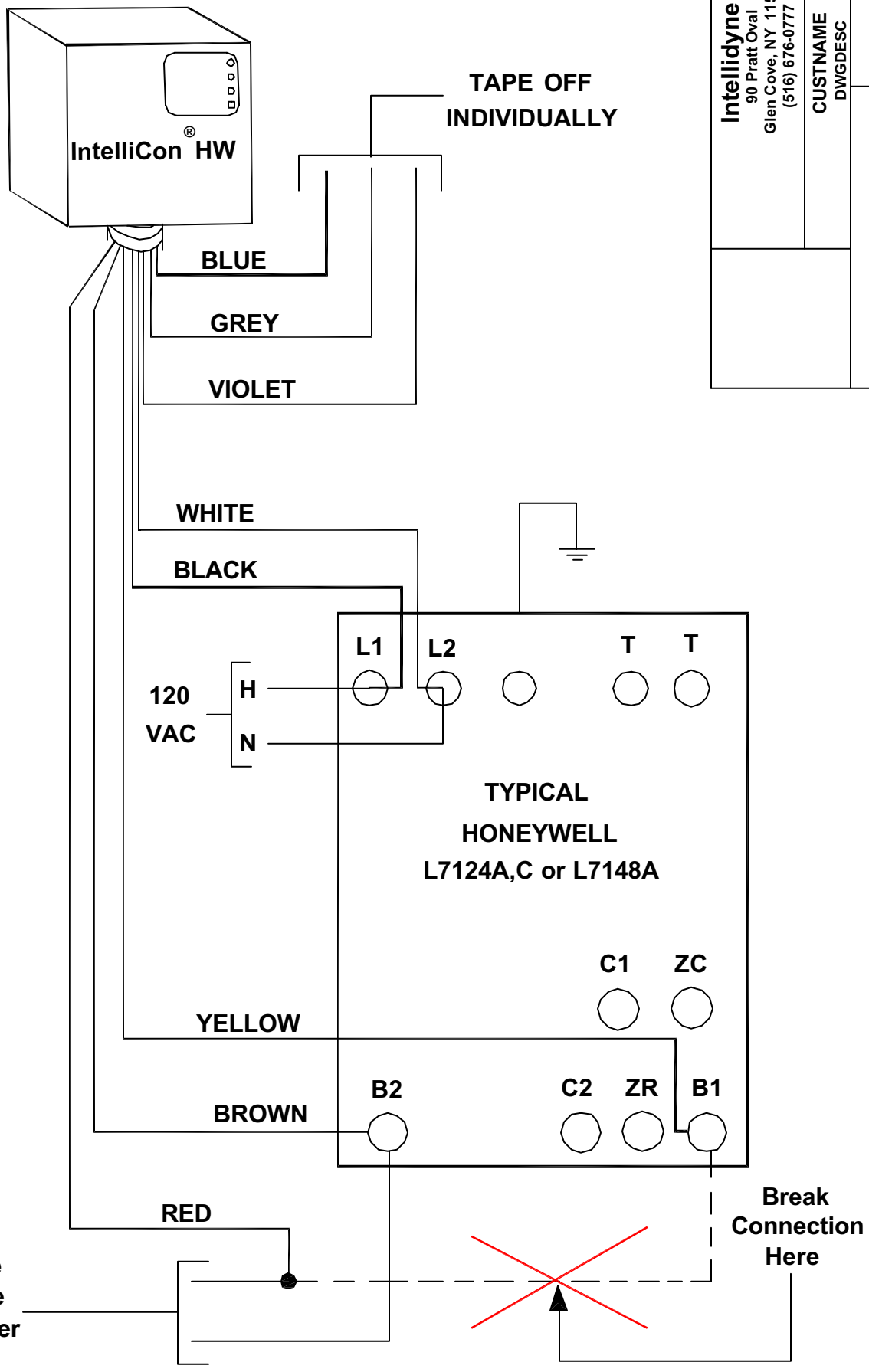
DWG. # DWG# DATE: DATE

IntelliCon HW with Honeywell L7124A,C or L7148A Oil Electronic Aquastat



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DATE
DATE:
DWG#
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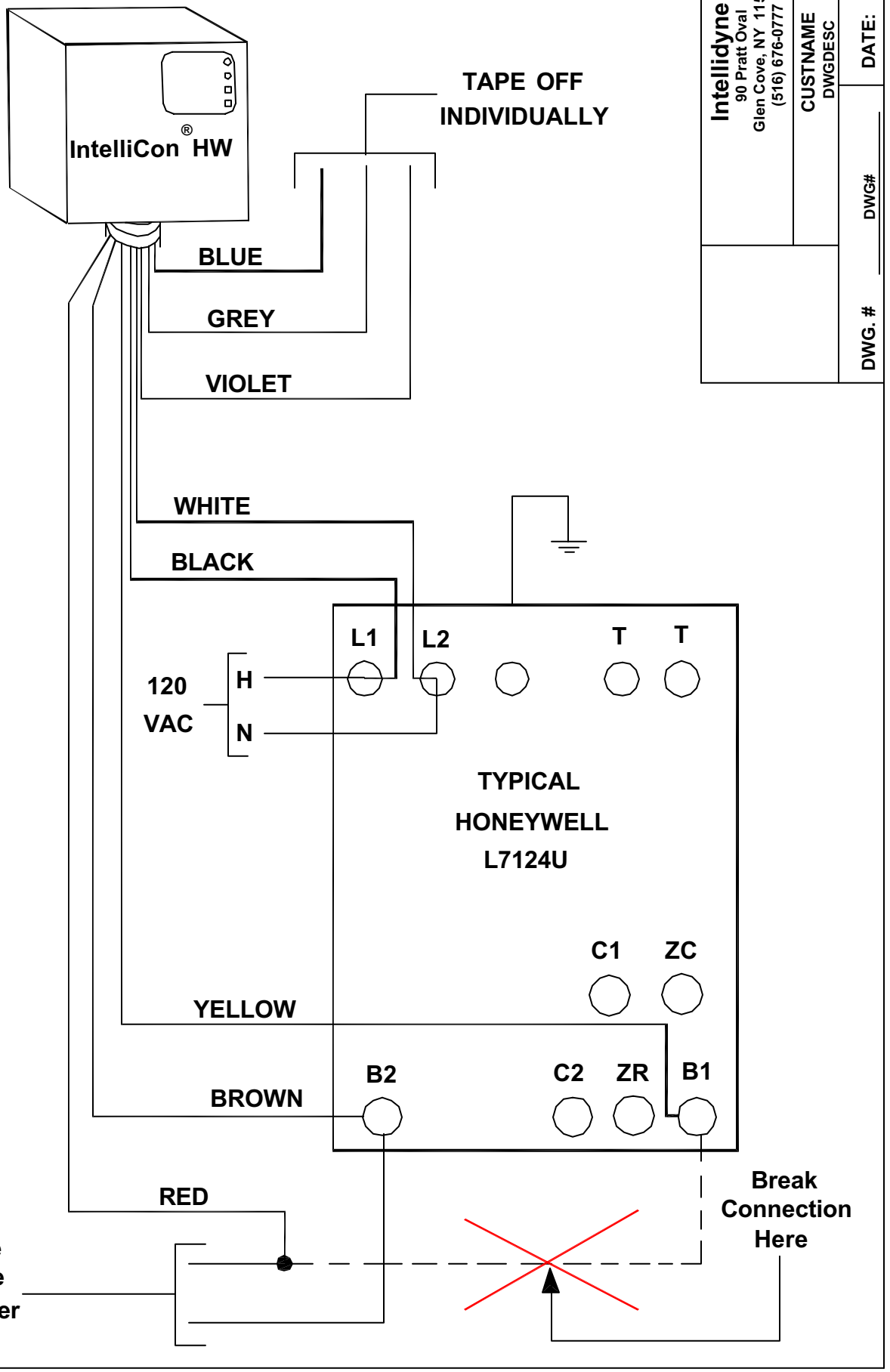
IntelliCon HW with Honeywell L7124U Universal Oil Electronic Aquastat



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DWG#
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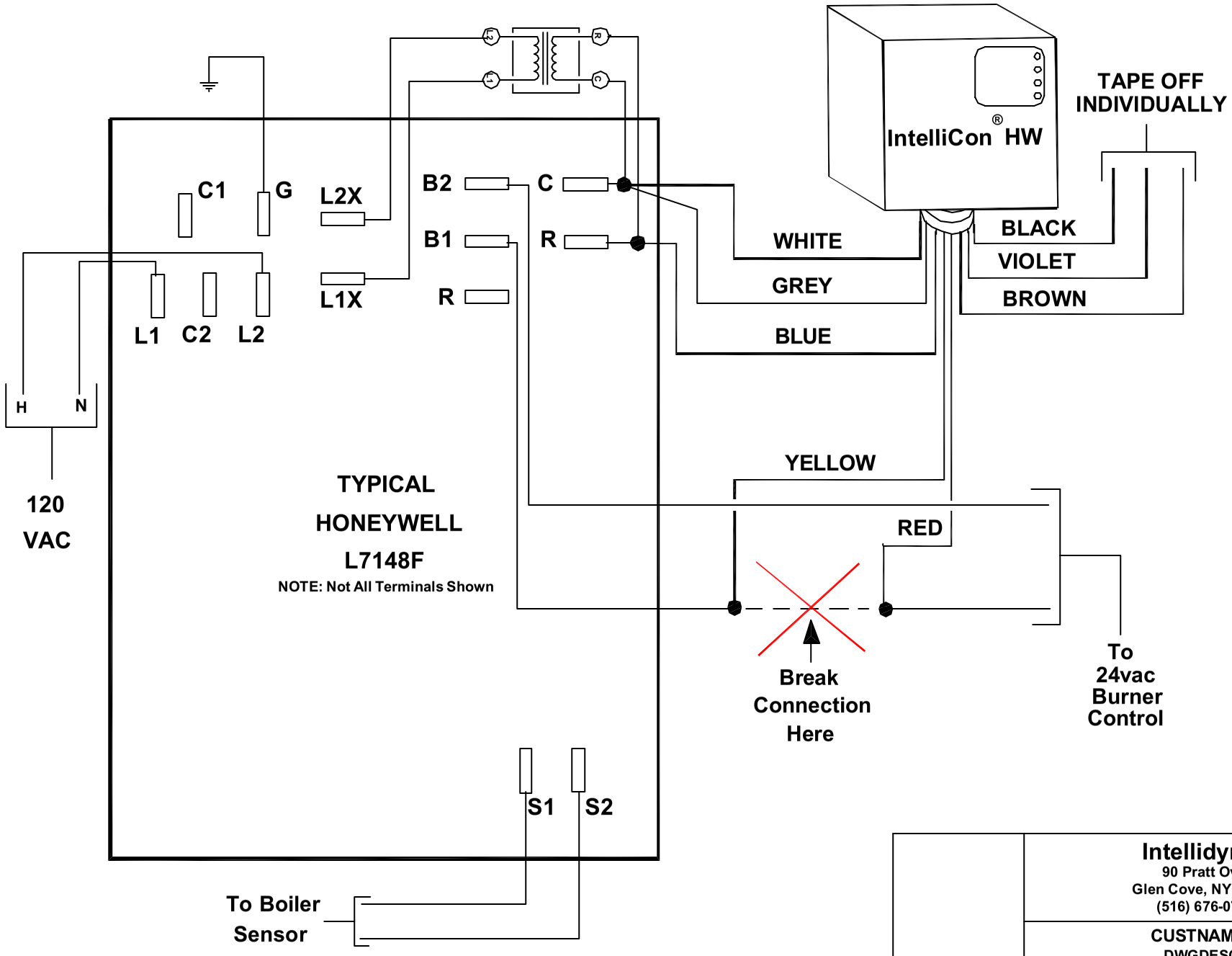

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DWG. # DWG#	DATE: DATE

IntelliCon HW with Honeywell L7224U Oil Electronic Aquastat Controller

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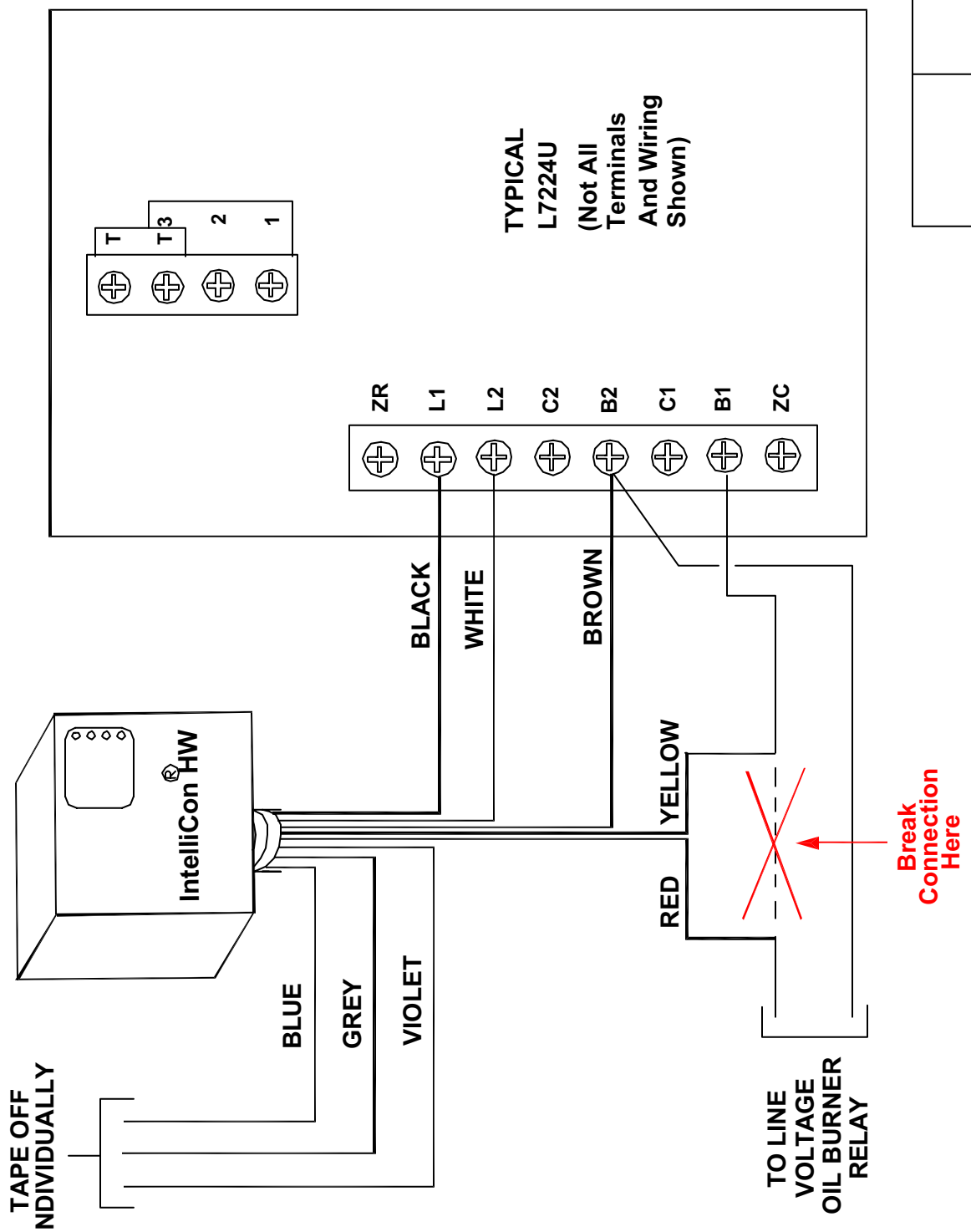
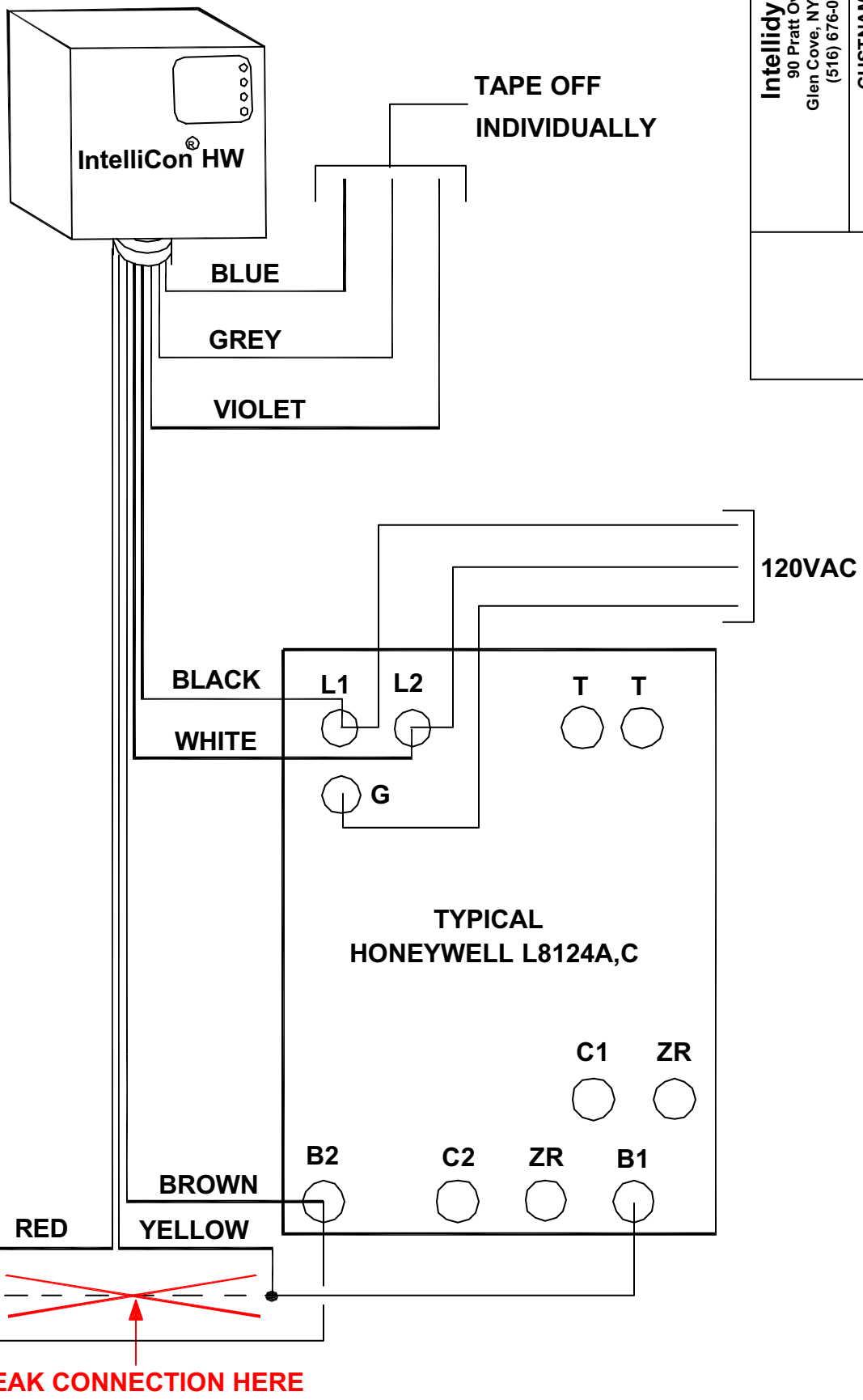


IntelliCon HW with Honeywell L8124A,C



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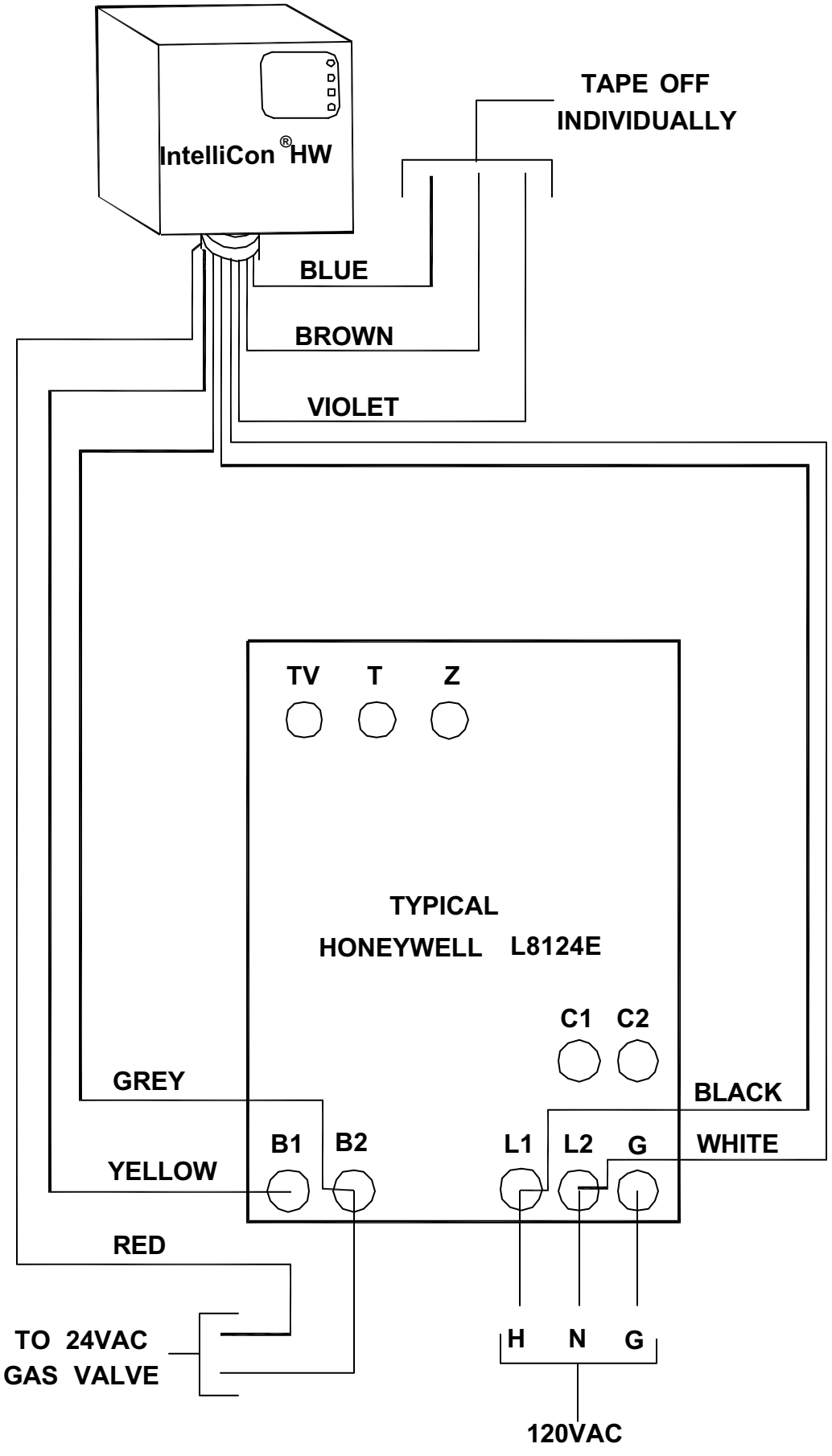
DWG# DWG. #

IntelliCon HW with HONEYWELL L8124E



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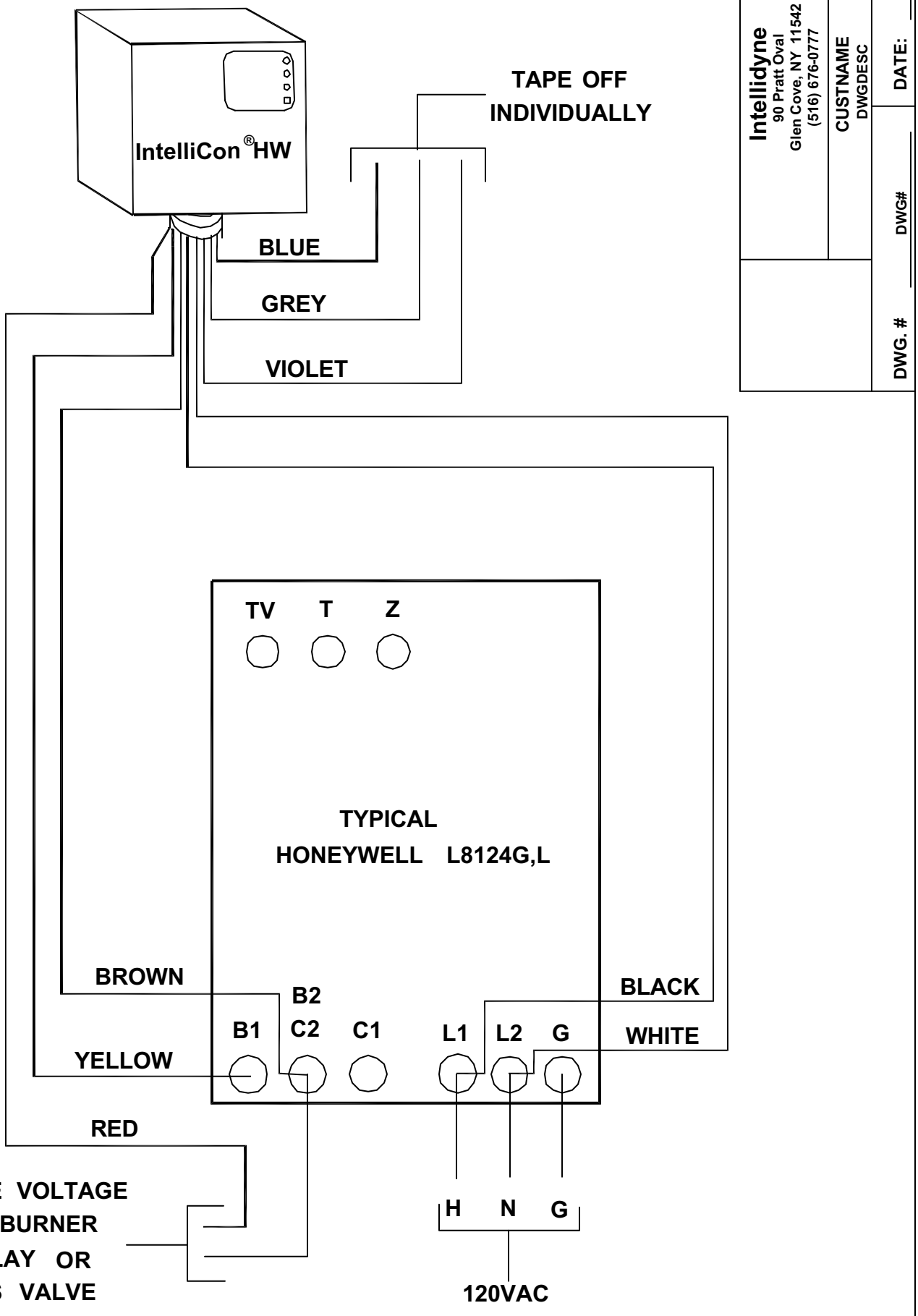
DWG. # DWG#

IntelliCon HW with Honeywell L8124G,L



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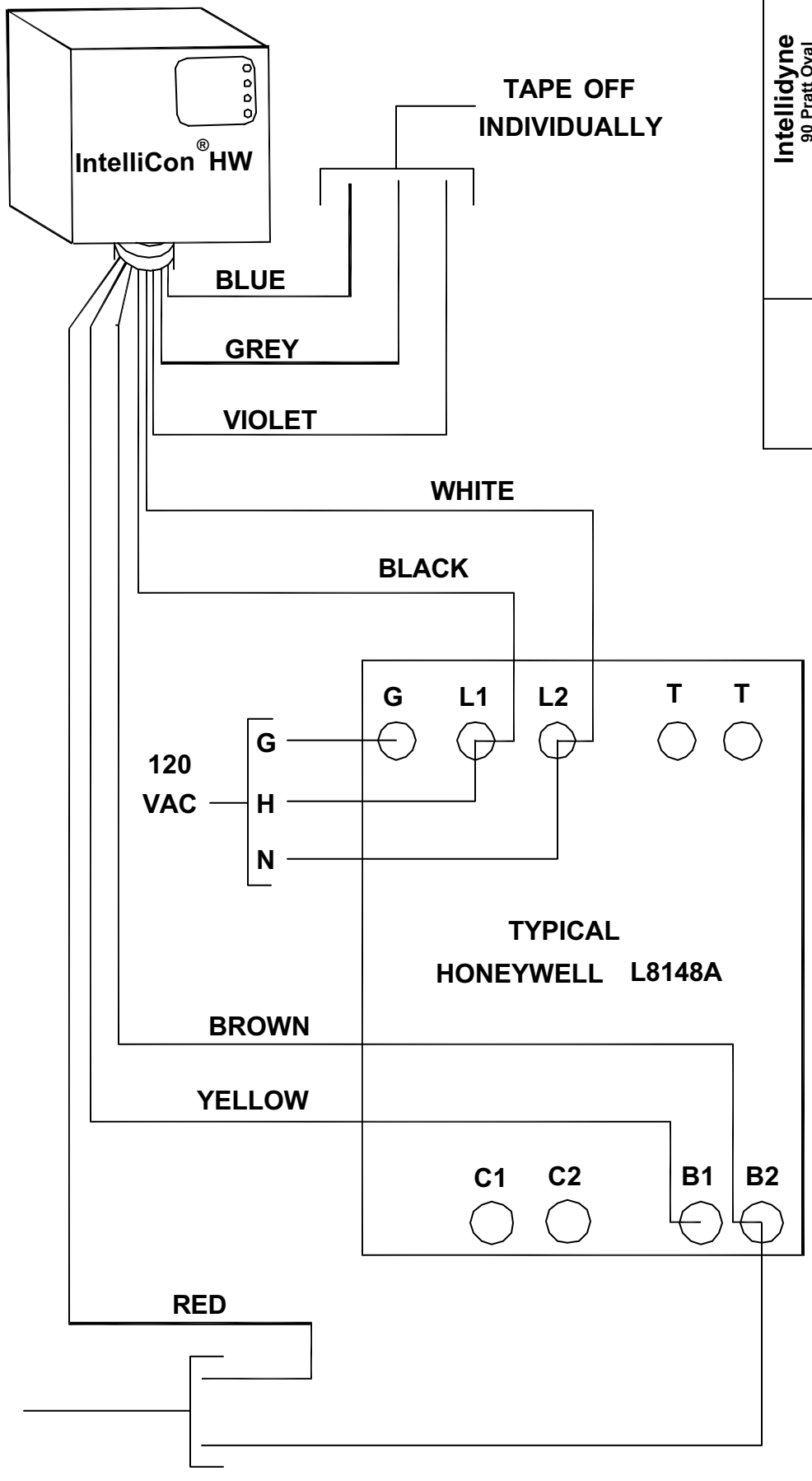
DWG#
DWG. #

IntelliCon HW with Honeywell L8148A



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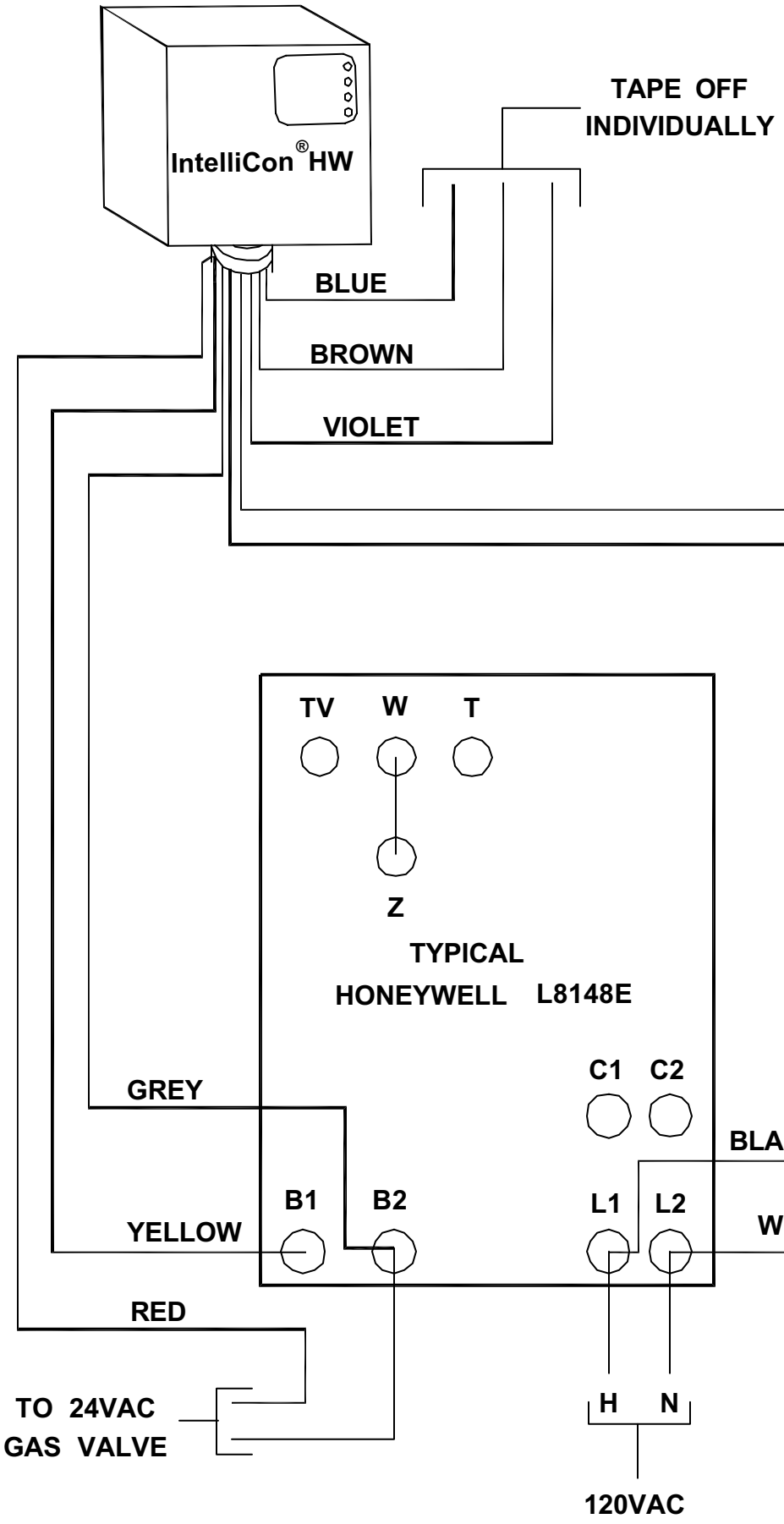
IntelliCon HW with Honeywell L8148E



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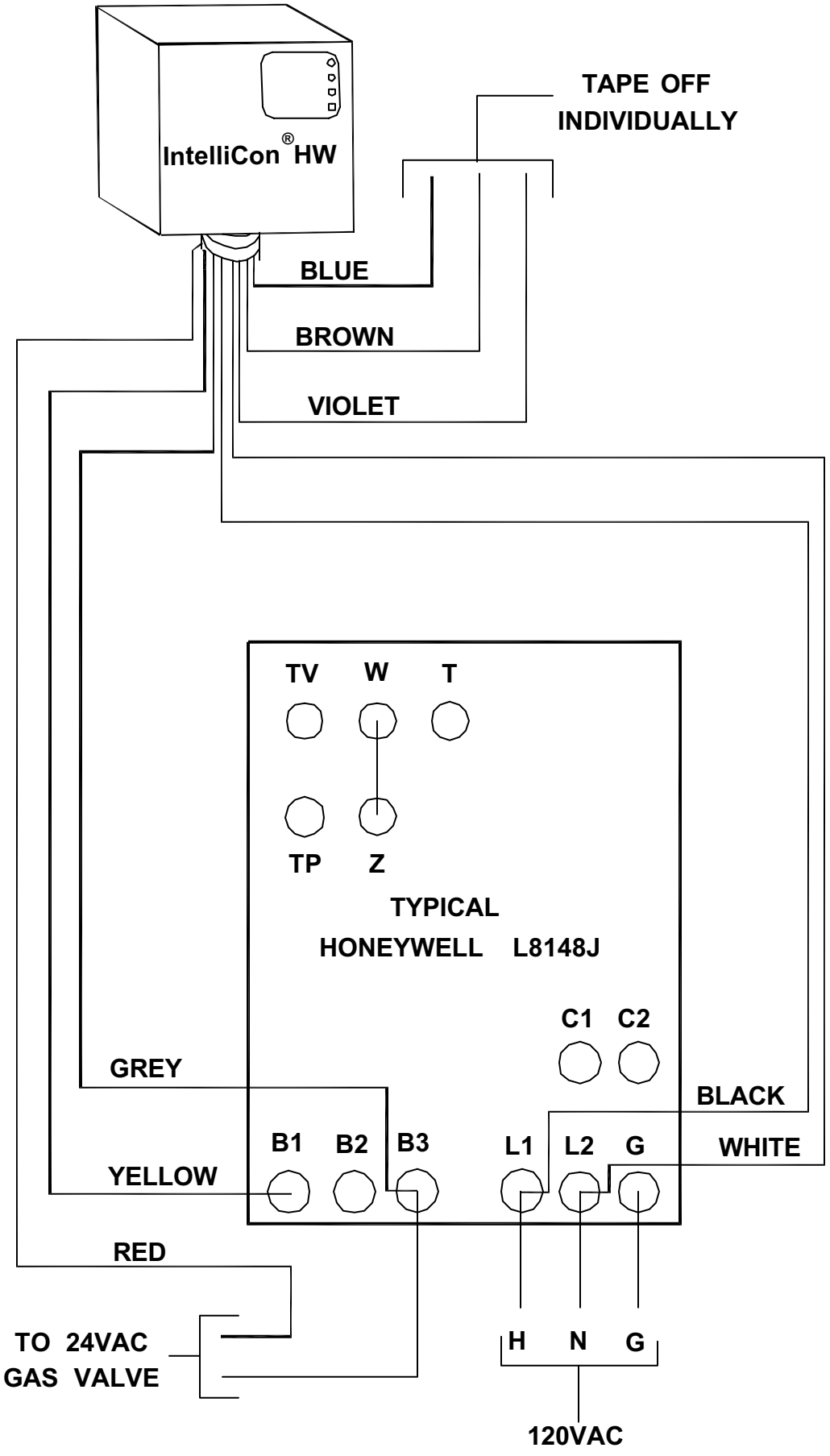
IntelliCon HW with Honeywell L8148J



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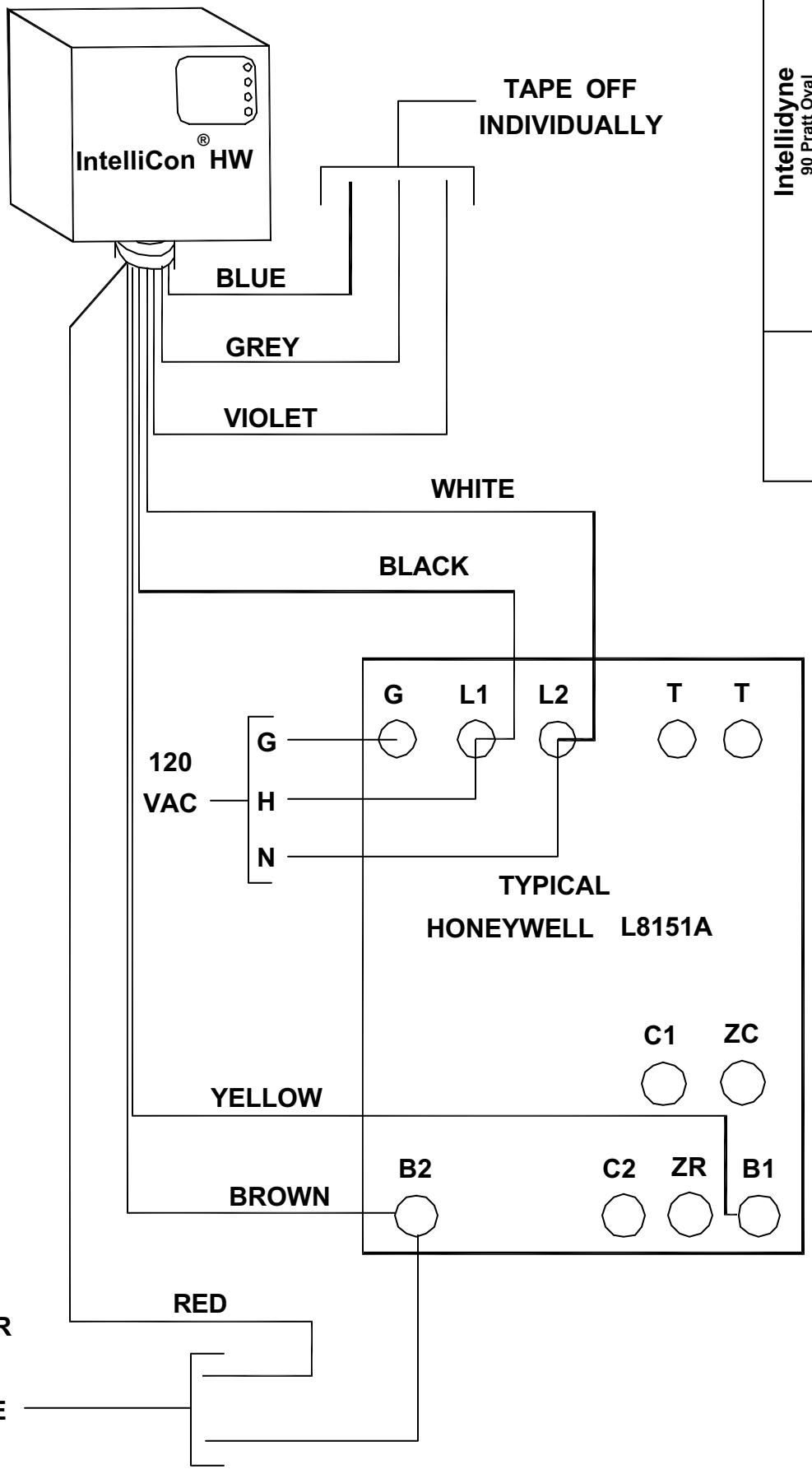
IntelliCon HW with Honeywell L8151A



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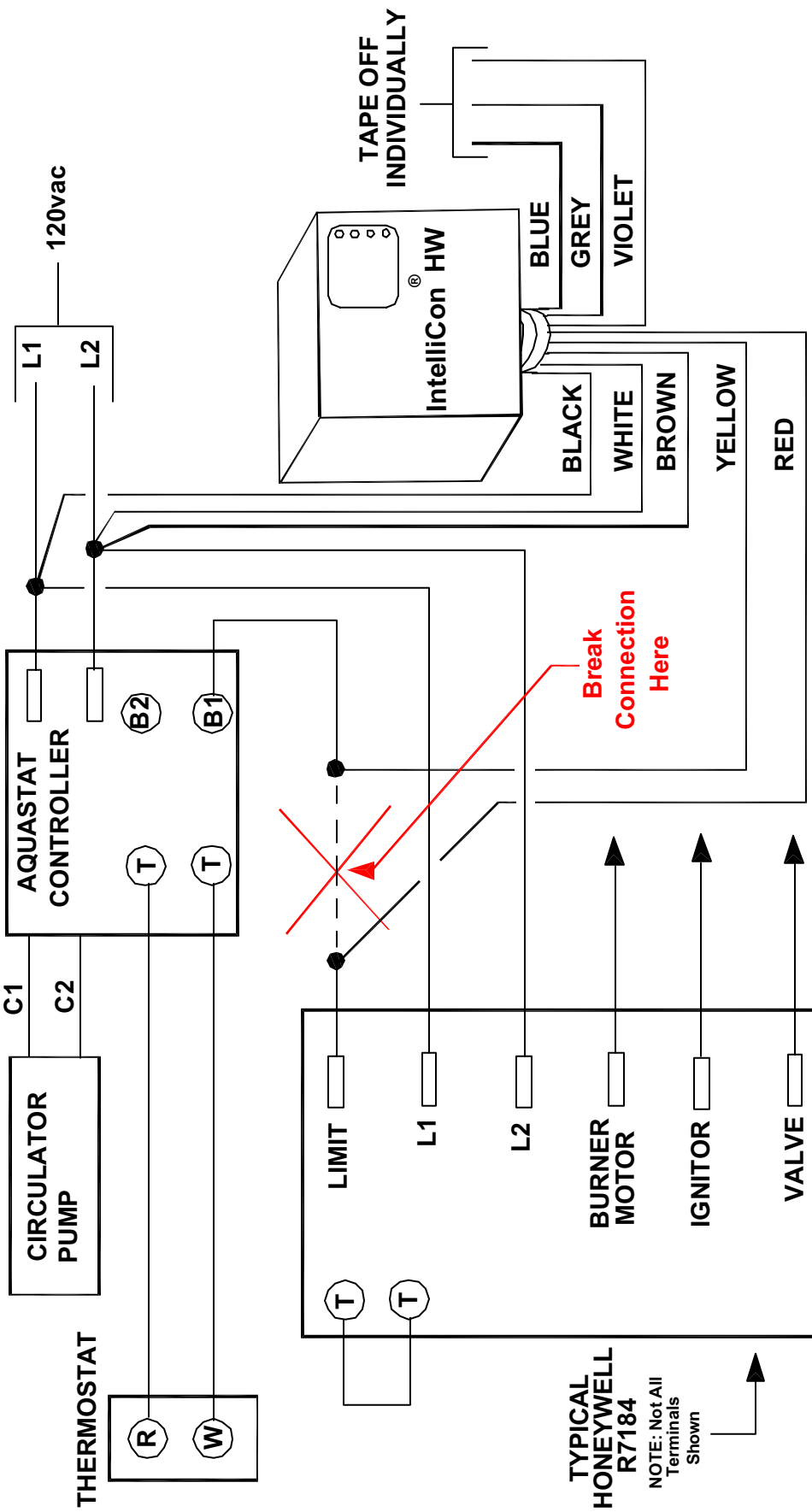
DATE:
DWG#
DWG. #

IntelliCon HW with Honeywell R7184A,B,P,U
Electronic Oil Primary



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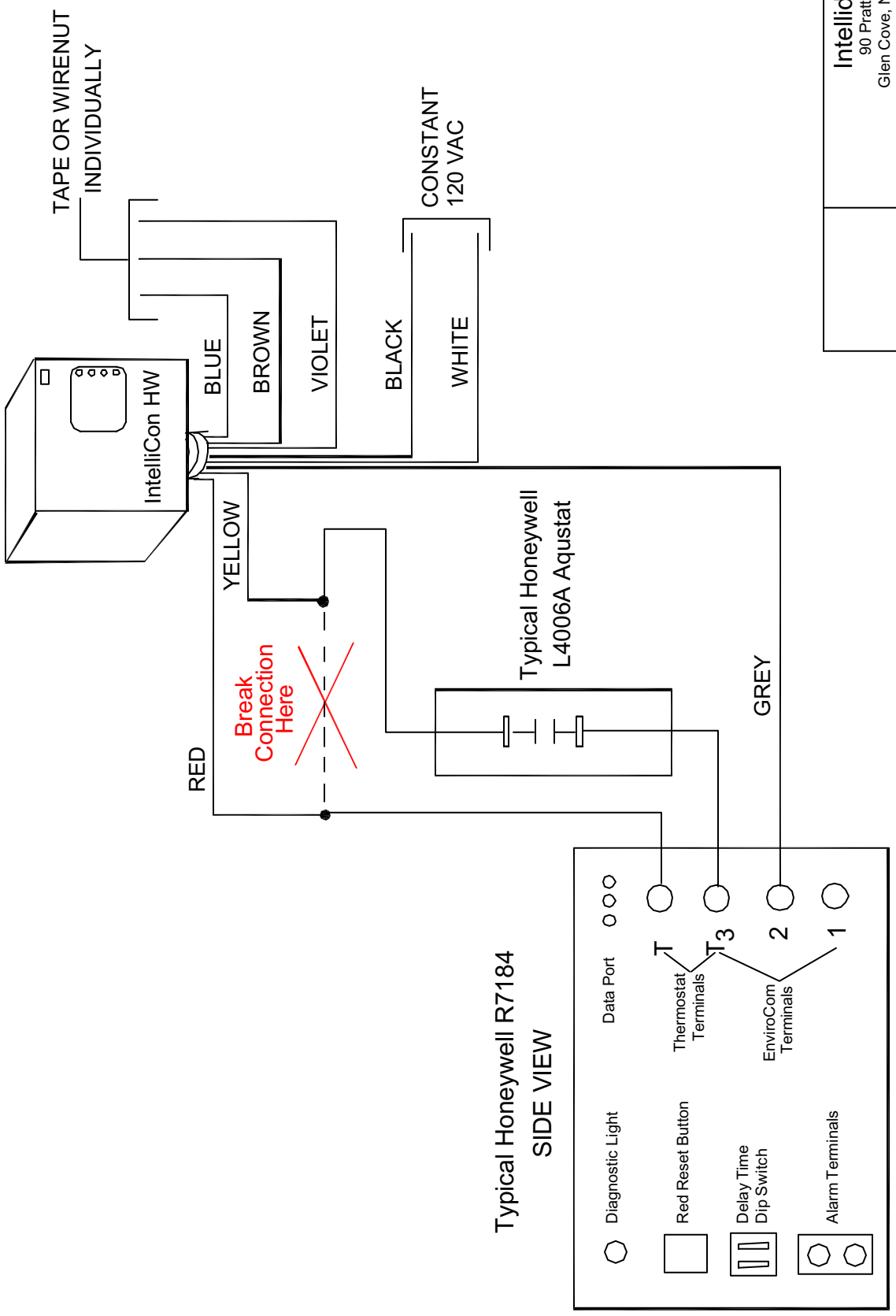
DWG. # DWG# DATE: DATE

IntelliCon HW with Honeywell R7184A,B,P,U "SERIES 5" Electronic Oil Primary When Aquastat Is Wired 24VAC



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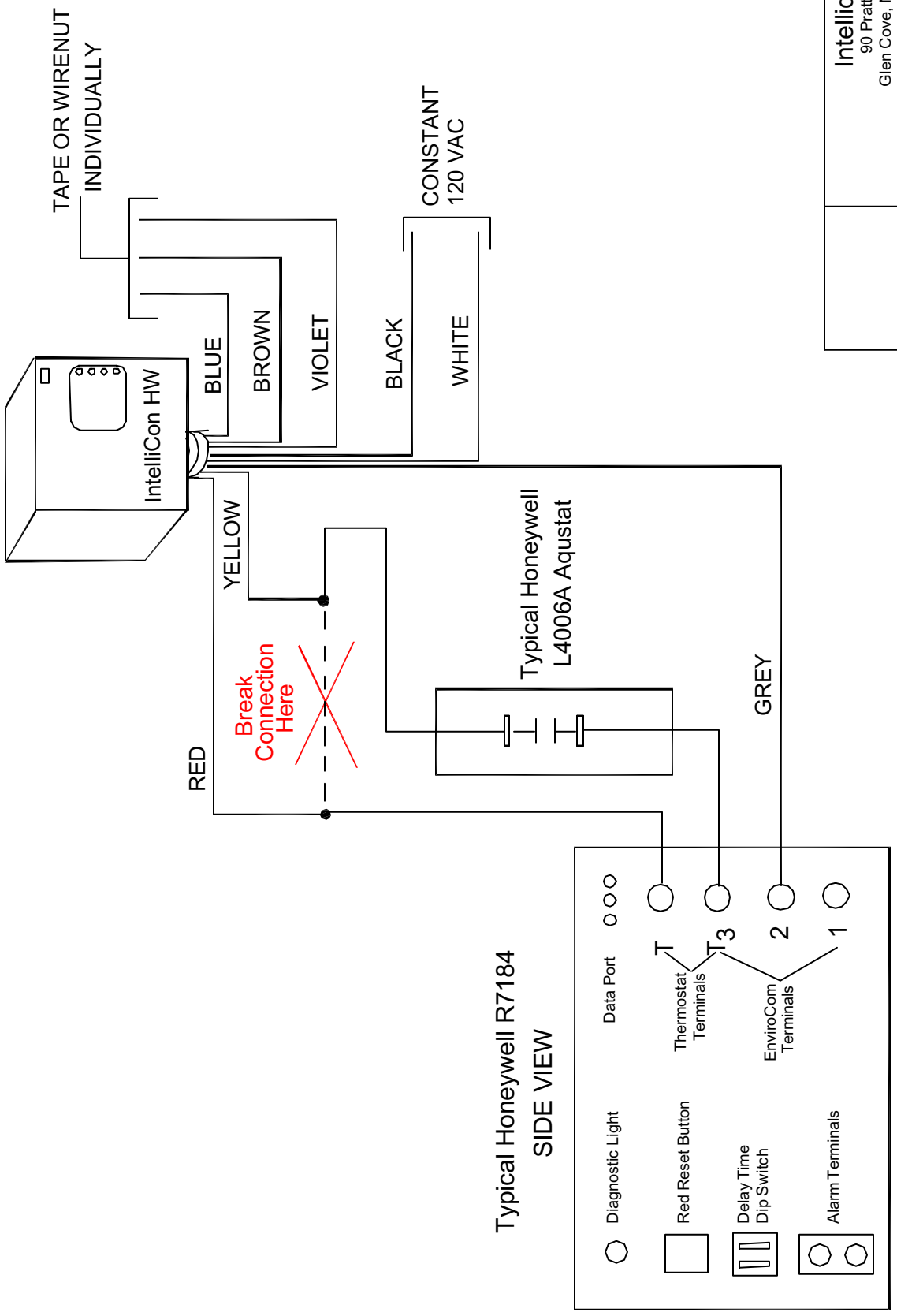
DWG. # DWG# DATE: DATE

IntelliCon HW with Honeywell

R7184A,B,P,U "SERIES 5" Electronic Oil Primary

When Aquastat Is Wired 24VAC



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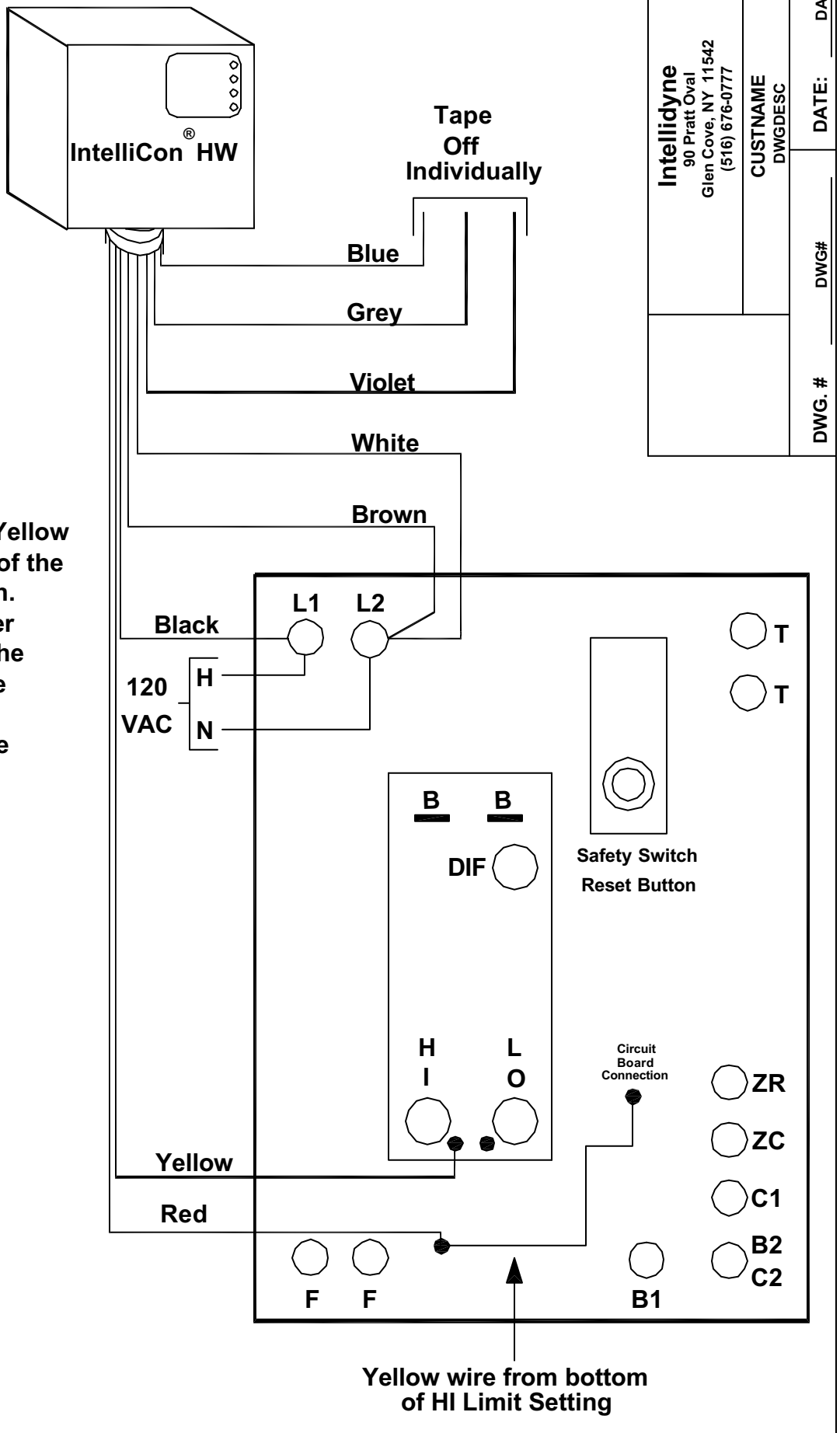
DWG. # DWG# DATE: DATE

IntelliCon HW with Honeywell R8182D



INSTRUCTIONS

Remove the existing Yellow wire from the bottom of the HI Limit Setting switch. Insert the HeatManager "YELLOW" wire into the wire hole. Connect the HeatManager "RED" wire to the Yellow wire that was removed.

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DATE:
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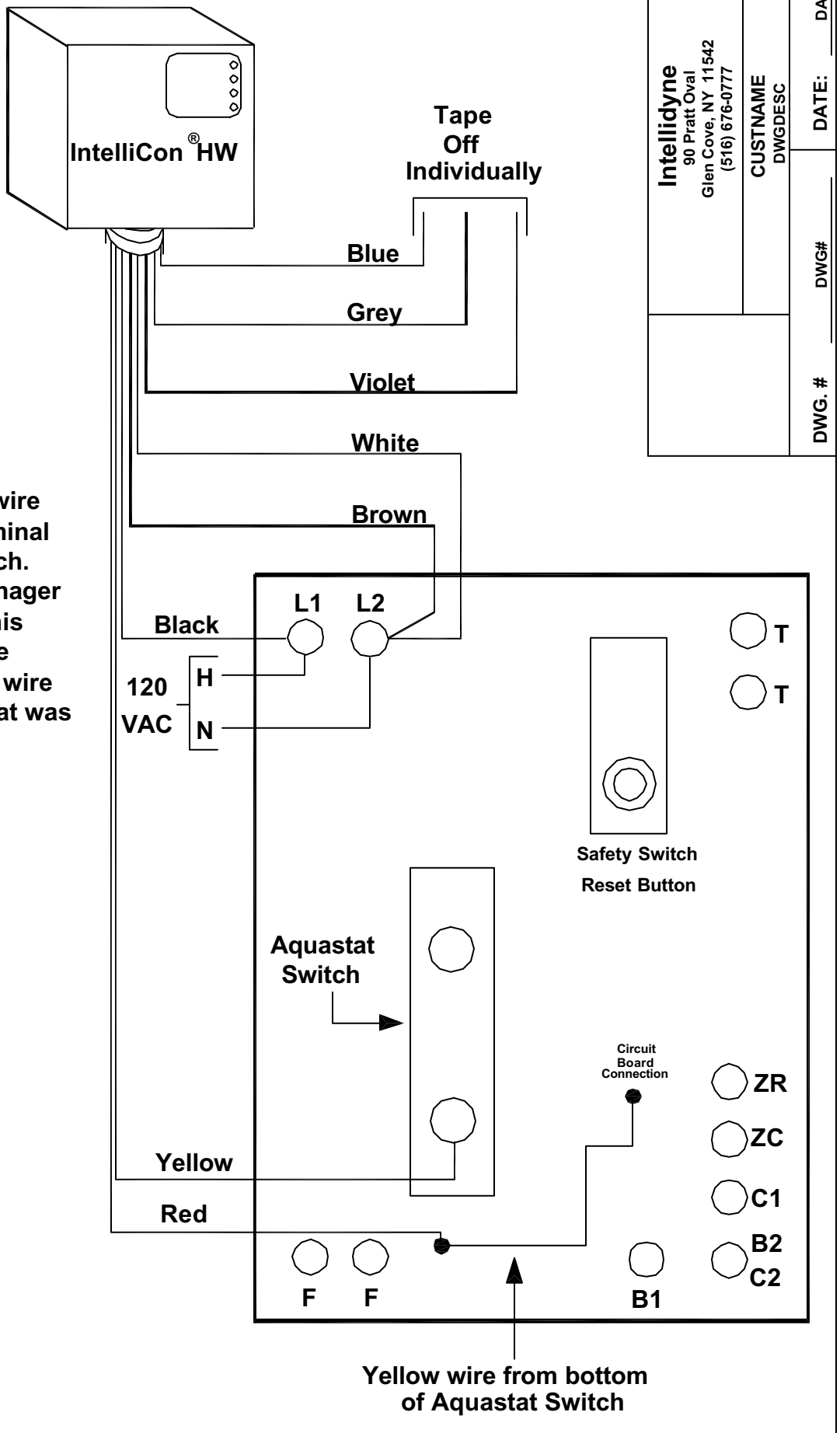
DWG. #

IntelliCon HW with Honeywell R8182E



INSTRUCTIONS

Remove the Yellow wire from the bottom terminal of the Aquastat Switch. Connect the HeatManager "YELLOW" wire to this terminal. Connect the HeatManager "RED" wire to the Yellow wire that was removed

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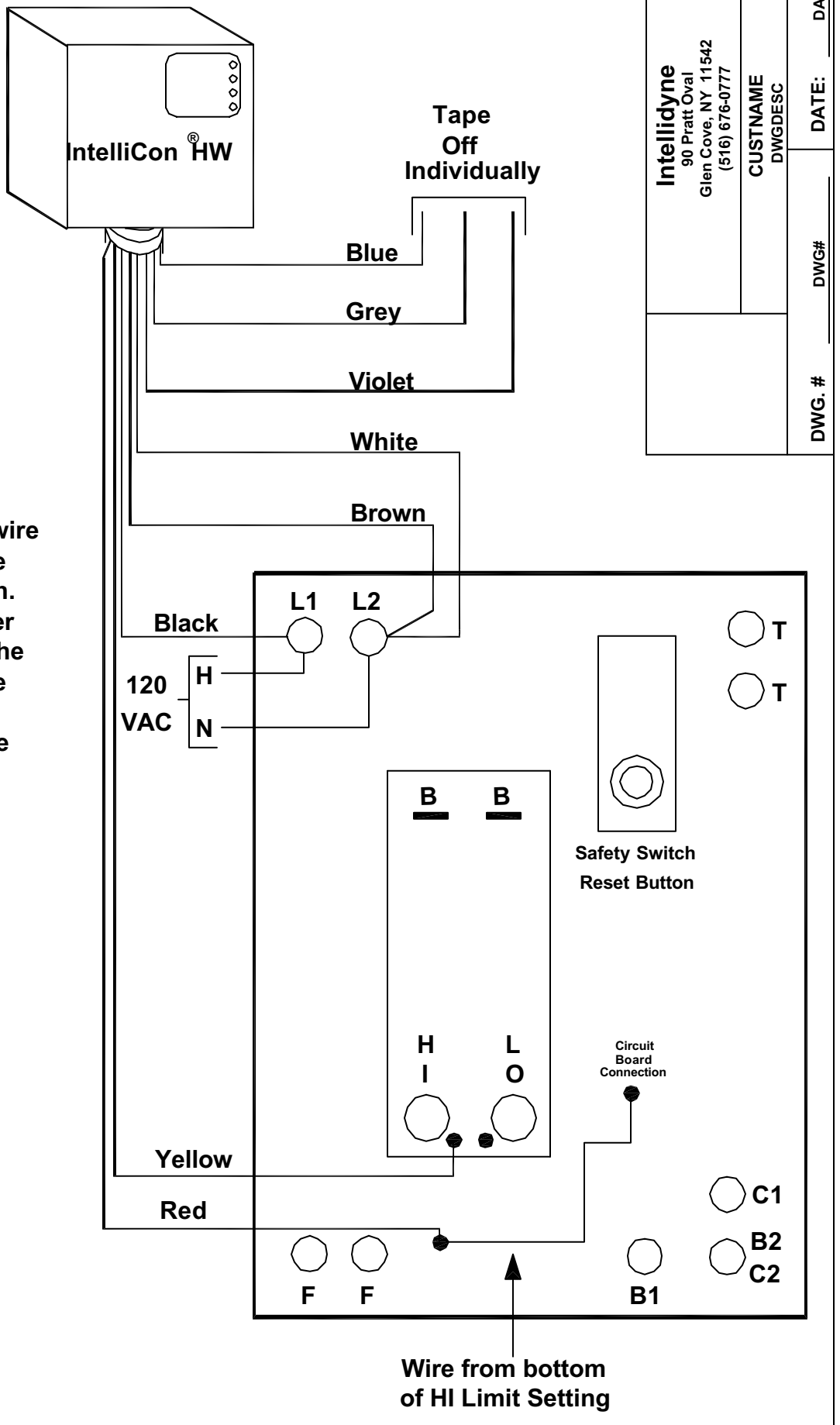
DWG. #

IntelliCon HW with Honeywell R8182F



INSTRUCTIONS

Remove the existing wire from the bottom of the HI Limit Setting switch. Insert the HeatManager "YELLOW" wire into the wire hole. Connect the HeatManager"RED" wire to the Yellow wire that was removed.

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DATE: DATE

DWG# DWG. #

DIAGRAM "A"

IntelliCon HW with Honeywell R8184G, K, L or N Cad Cell Relay

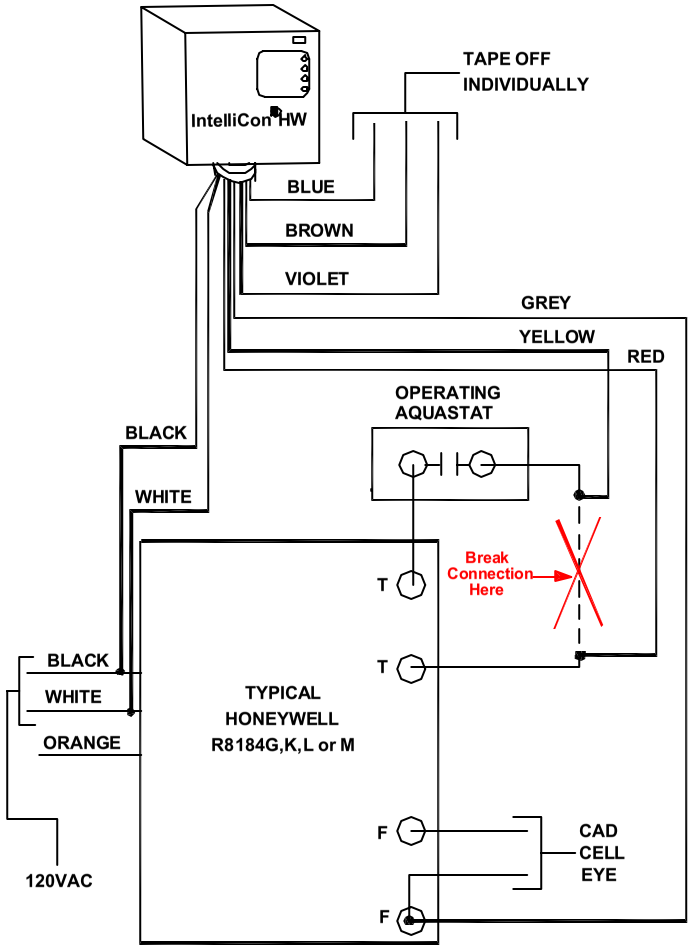
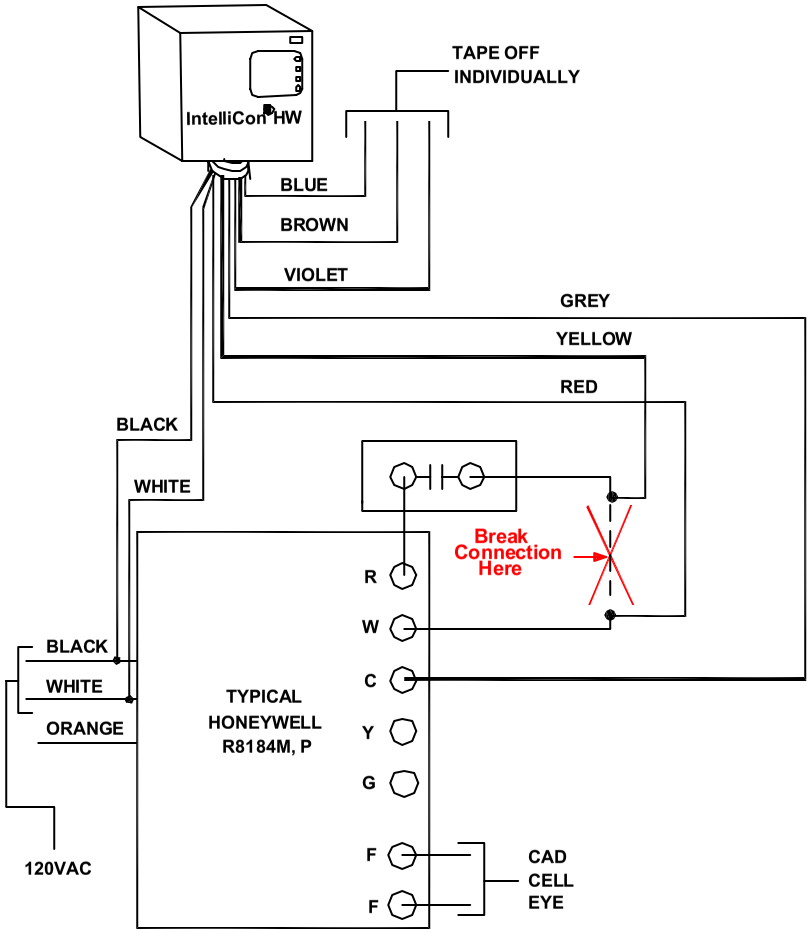


DIAGRAM "B"

IntelliCon HW with Honeywell R8184M or P Cad Cell Relay



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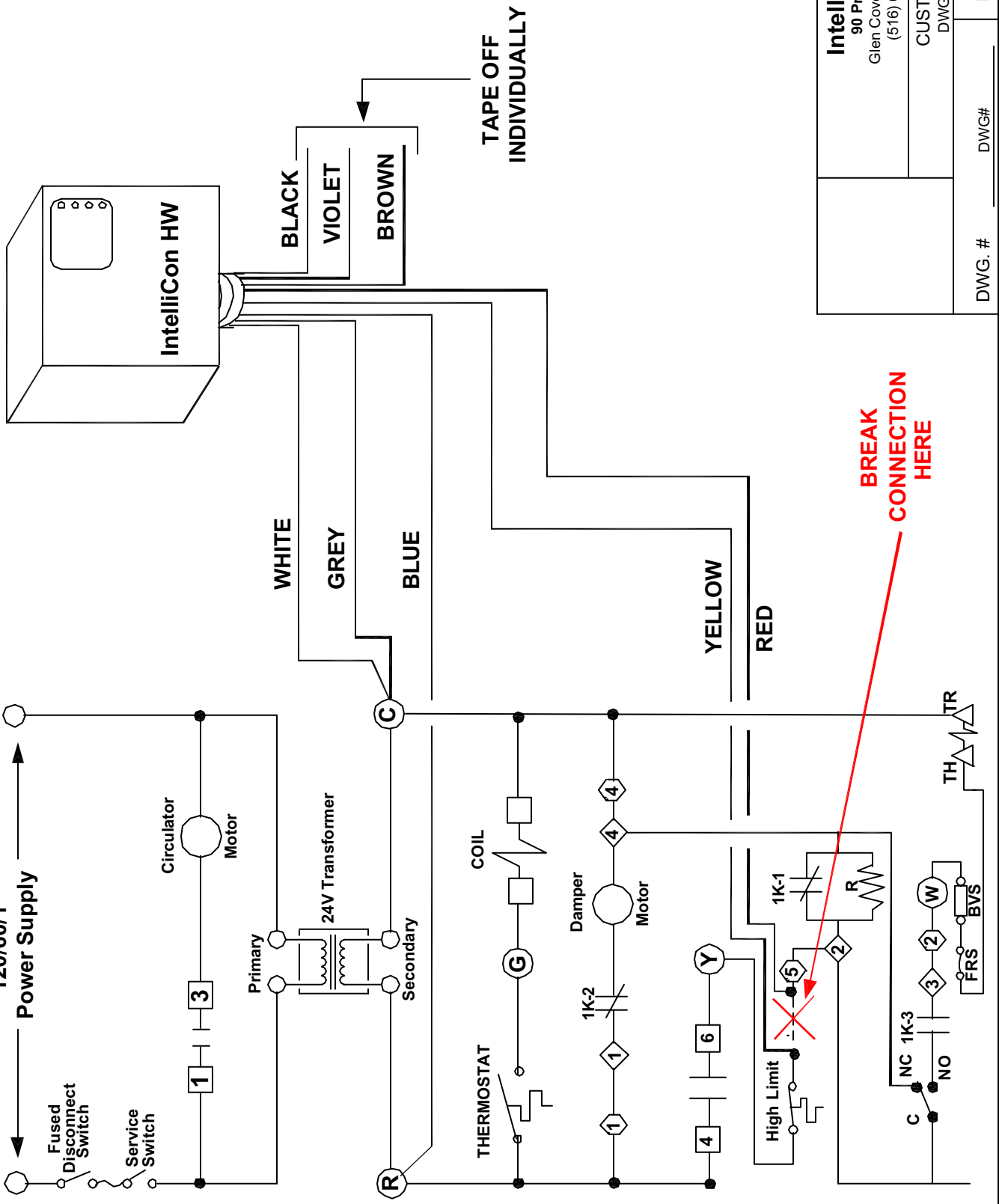
DWG. # DWG#

DATE: DATE

IntelliCon HW With Honeywell R8285D Relay/Transformer Package When Used On Boilers



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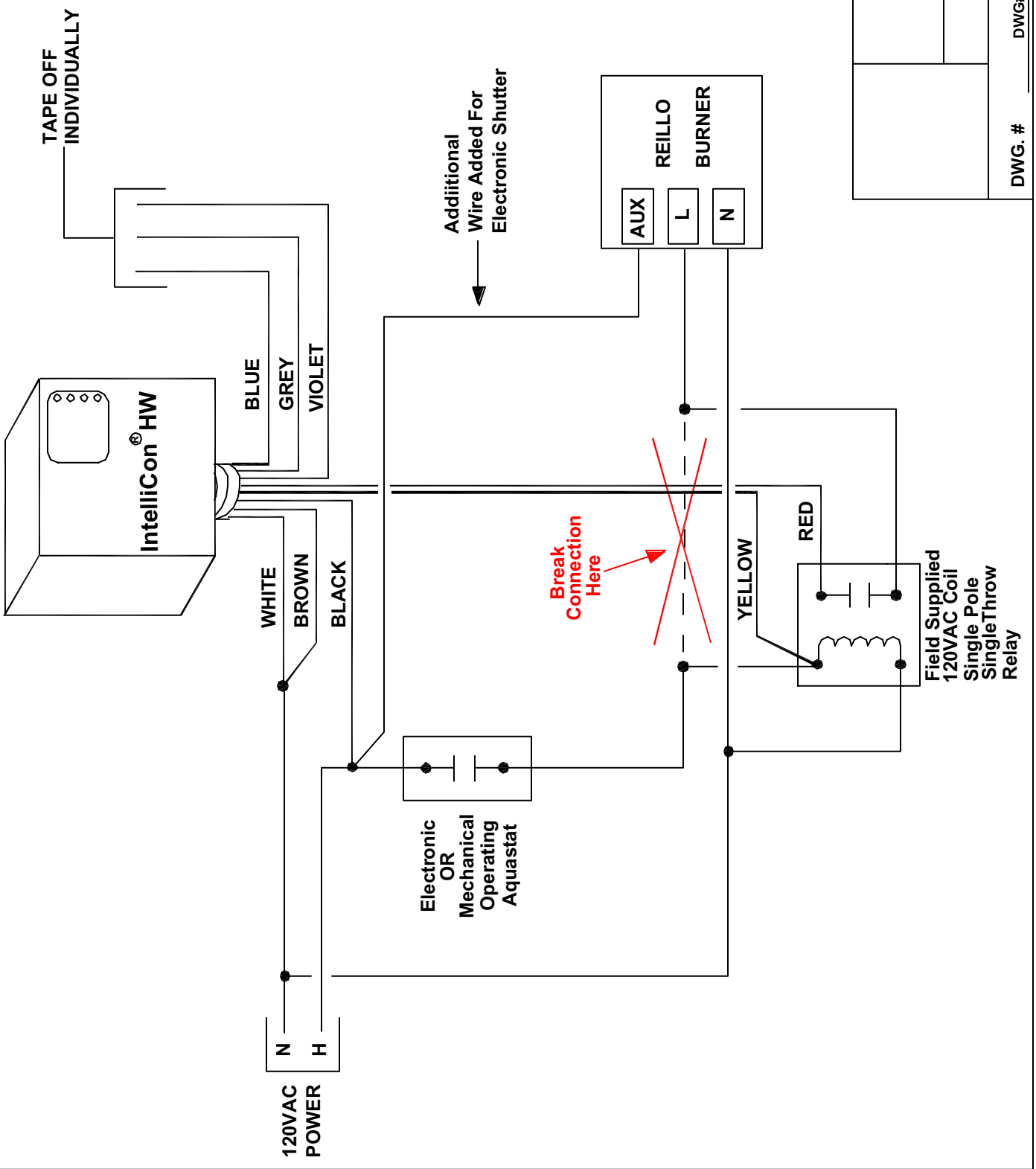
DWG. # DWG# DATE: DATE

IntelliCon HW with Riello 40F5 Burner

(if experiencing voltage feedback from burner on IntelliCon "RED" Wire)



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DWG. # DWG# DATE: DATE

Fireye Flame Safeguard Controls

General Instructions

The *IntelliCon*® Heating Economizers are connected in series in the burner control circuit AFTER the operating safety's and limit controls and BEFORE the burner Flame Safeguard Primary Control.

ATTENTION MUST BE GIVEN WHEN A DRAFT INDUCER IS USED ON THE BOILER

***** When a draft inducer is being used, the operating limit control, on closure, will activate a relay, contactor or starter to enable the draft inducer. An air proving switch will close indicating that the draft inducer is running and a negative air flow has been established through the boiler. Once the negative airflow has been established the Flame Safeguard is enabled and starts the burner sequence.**

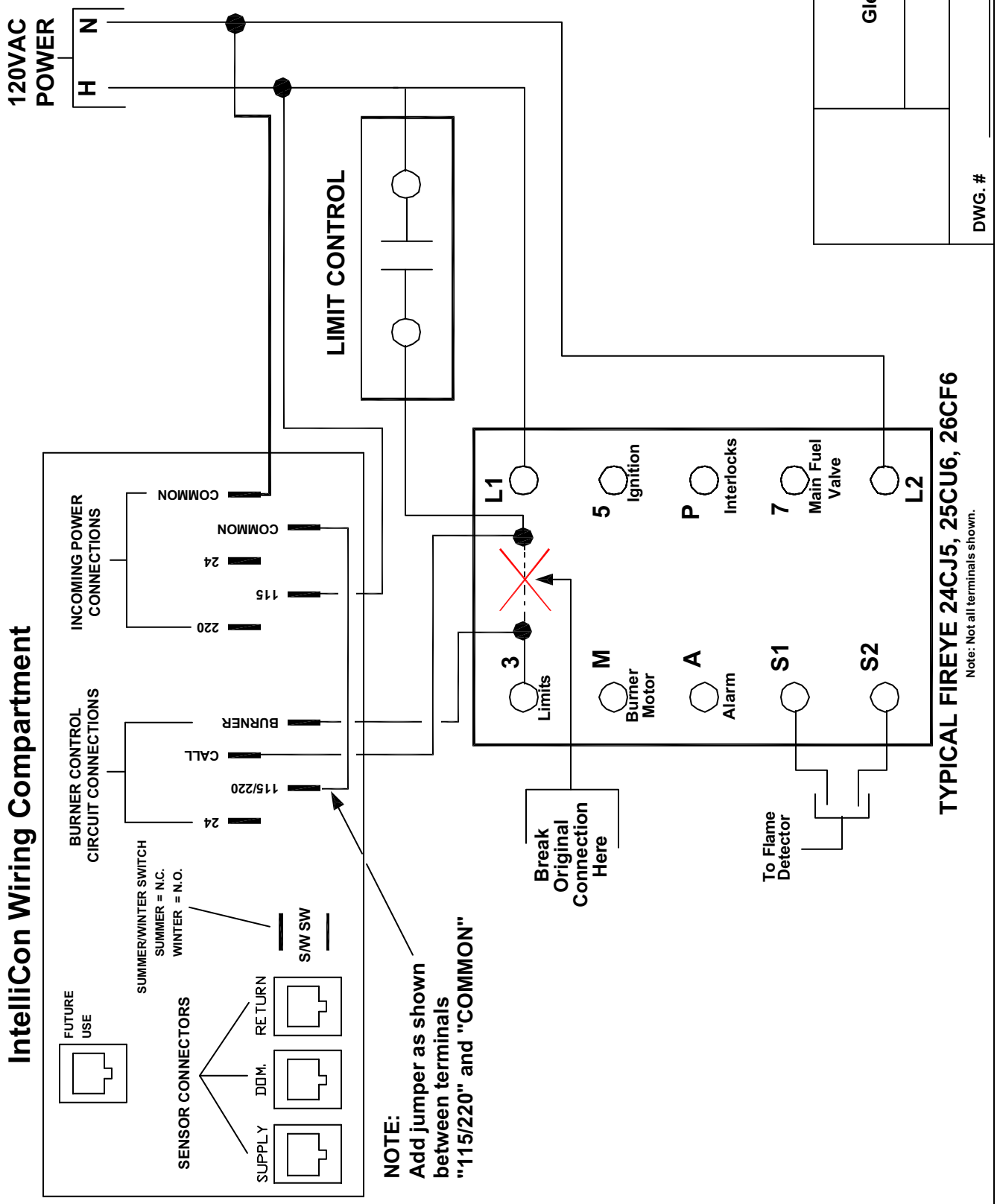
Improperly connected into the operating limit circuit, the draft inducer will run drawing ambient (or cooler) air through the boiler while the *IntelliCon*® Heating Economizer is in the "ECONOMY" mode.

Each installation should be checked for the proper connection point of the *IntelliCon*® Heating Economizer.

The following wiring diagrams show the connection points of the *IntelliCon*® Heating Economizer at the Fireye Flame Safeguard ONLY. If a draft inducer is used as explained above, determine the connection point from the operating limit control BEFORE the Flame Safeguard Control.

IntelliCon CHS or CHW With Fireye

24CJ6 Model 3010, 3011
24CU6 Model 1062, 1063
24CF6 Model 1010, 1011



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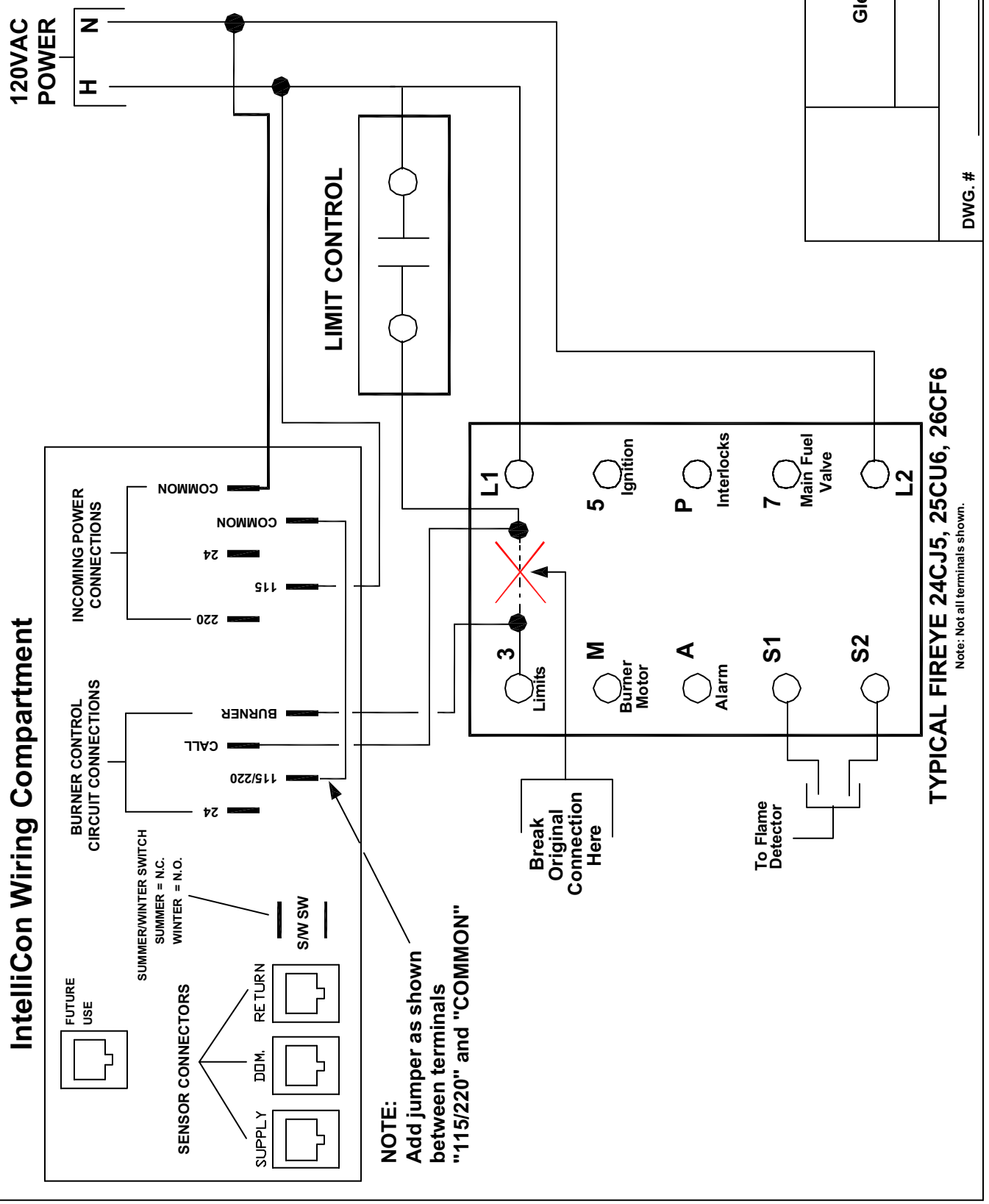
DWG. #

DATE:

IntelliCon CHS or CHW With Fireye

24CJ6 Model 3010, 3011
24CU6 Model 1062, 1063
24CF6 Model 1010, 1011



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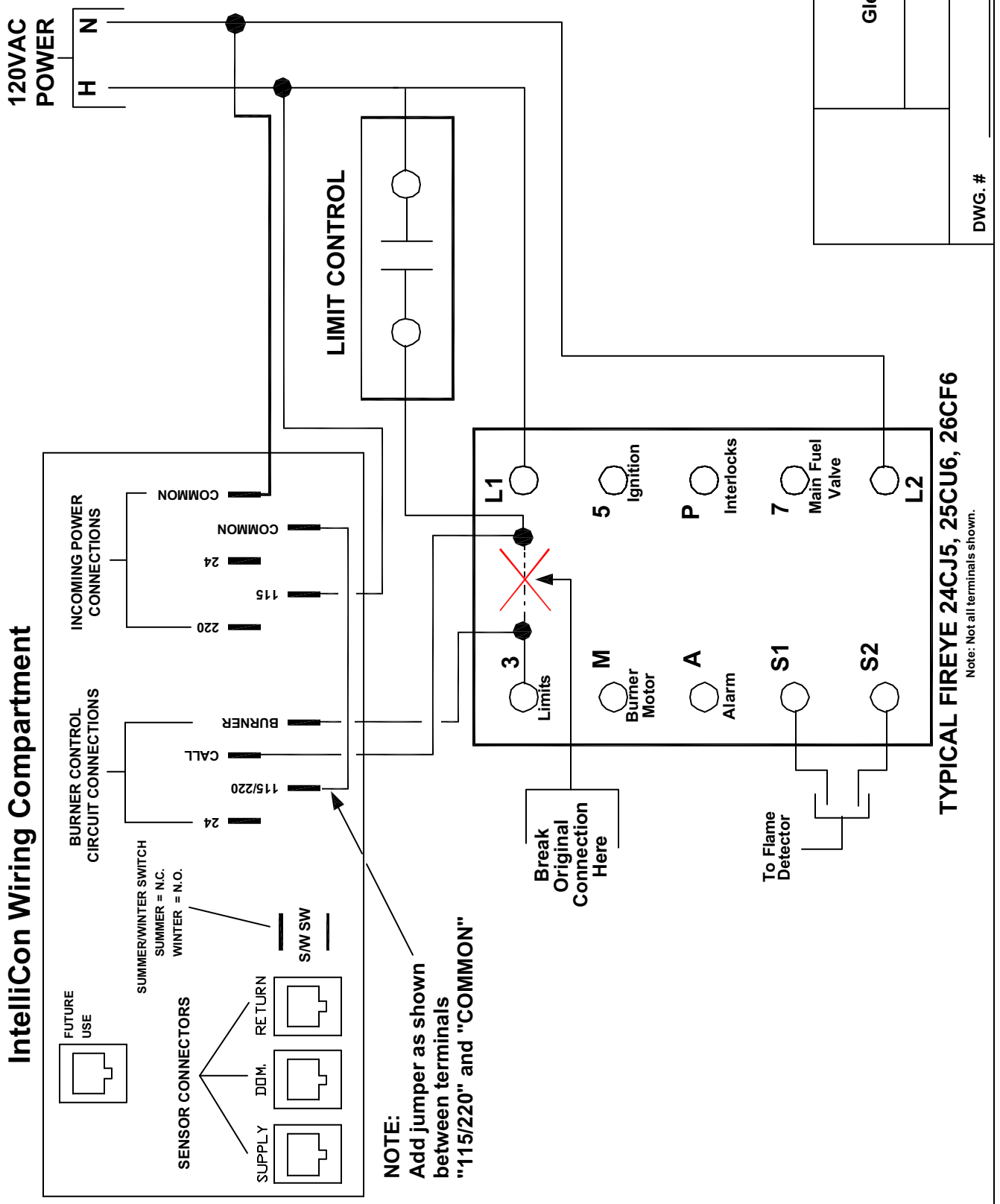
DWG. #

DATE:

IntelliCon CHS or CHW With Fireye

24CJ6 Model 3010, 3011
24CU6 Model 1062, 1063
24CF6 Model 1010, 1011



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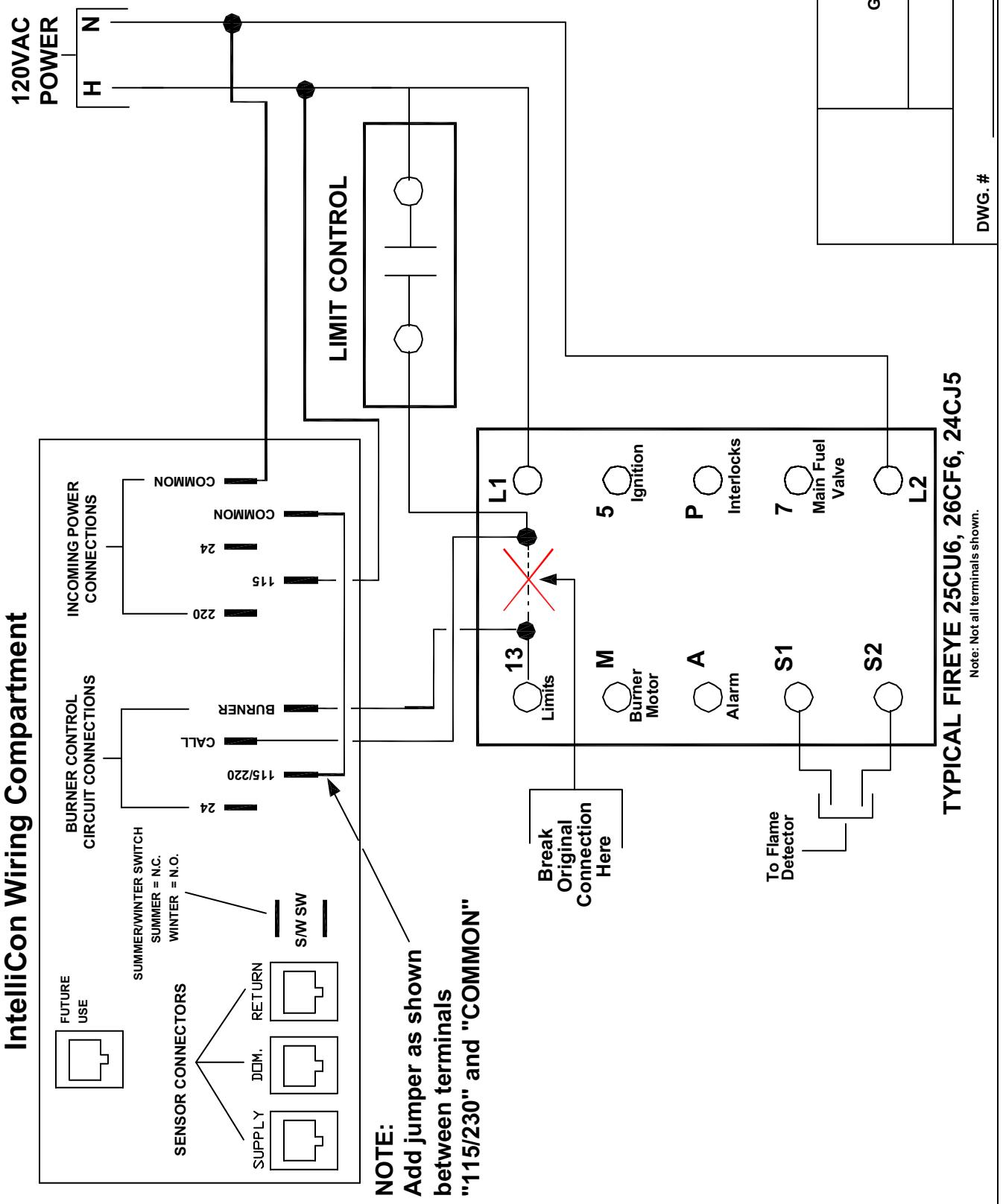
DWG. #

DATE:

IntelliCon CHS or CHW With Fireye

25CU6 Model 5066
26CF6 Model 5023
24CJ5 Model 5015



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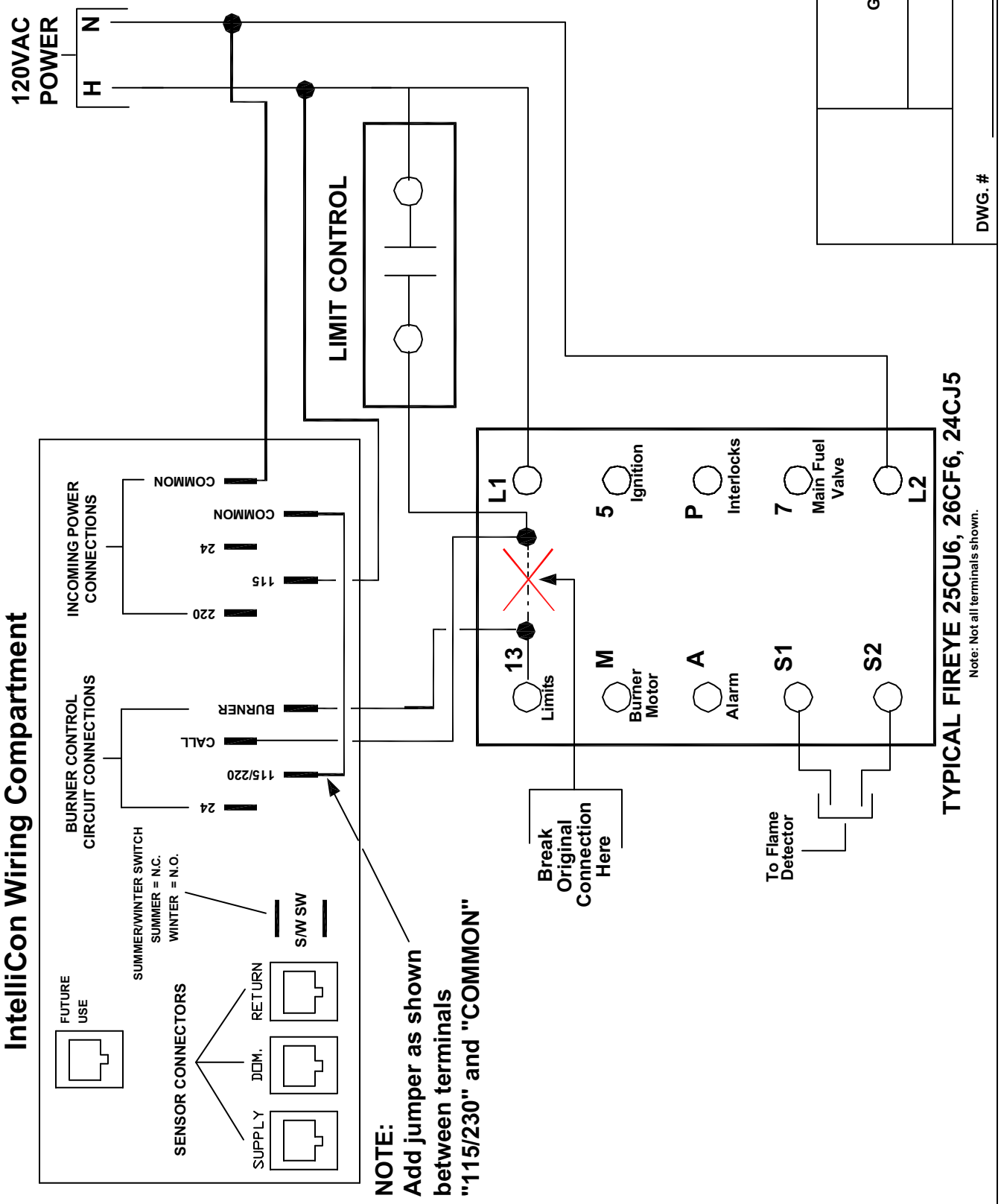
CUSTNAME
DWGDESC

DWG. #

DATE:

IntelliCon CHS or CHW With Fireye

25CU6 Model 5066
26CF6 Model 5023
24CJ5 Model 5015



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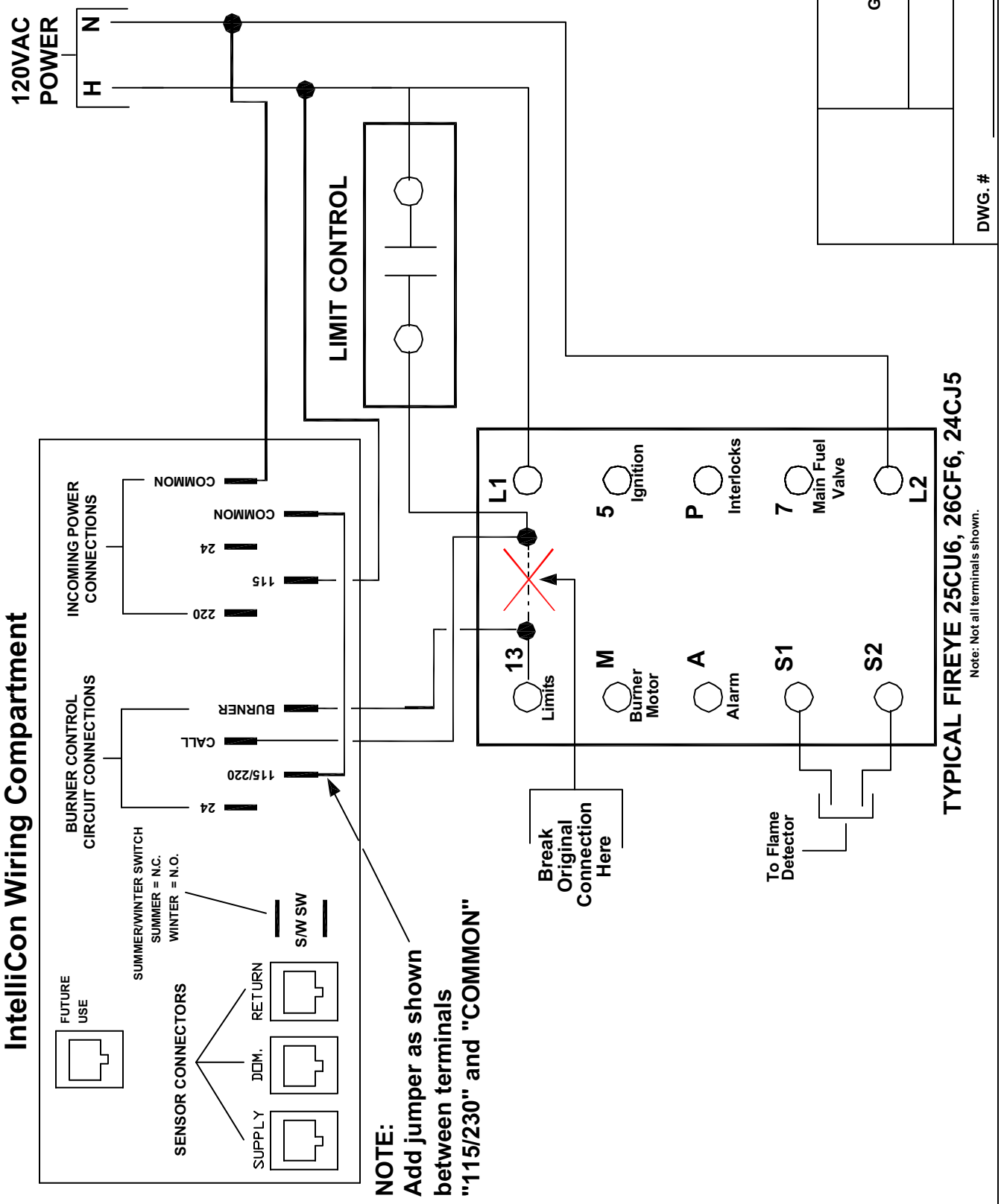
DWG. #

DATE:

IntelliCon CHS or CHW With Fireye

25CU6 Model 5066
26CF6 Model 5023
24CJ5 Model 5015



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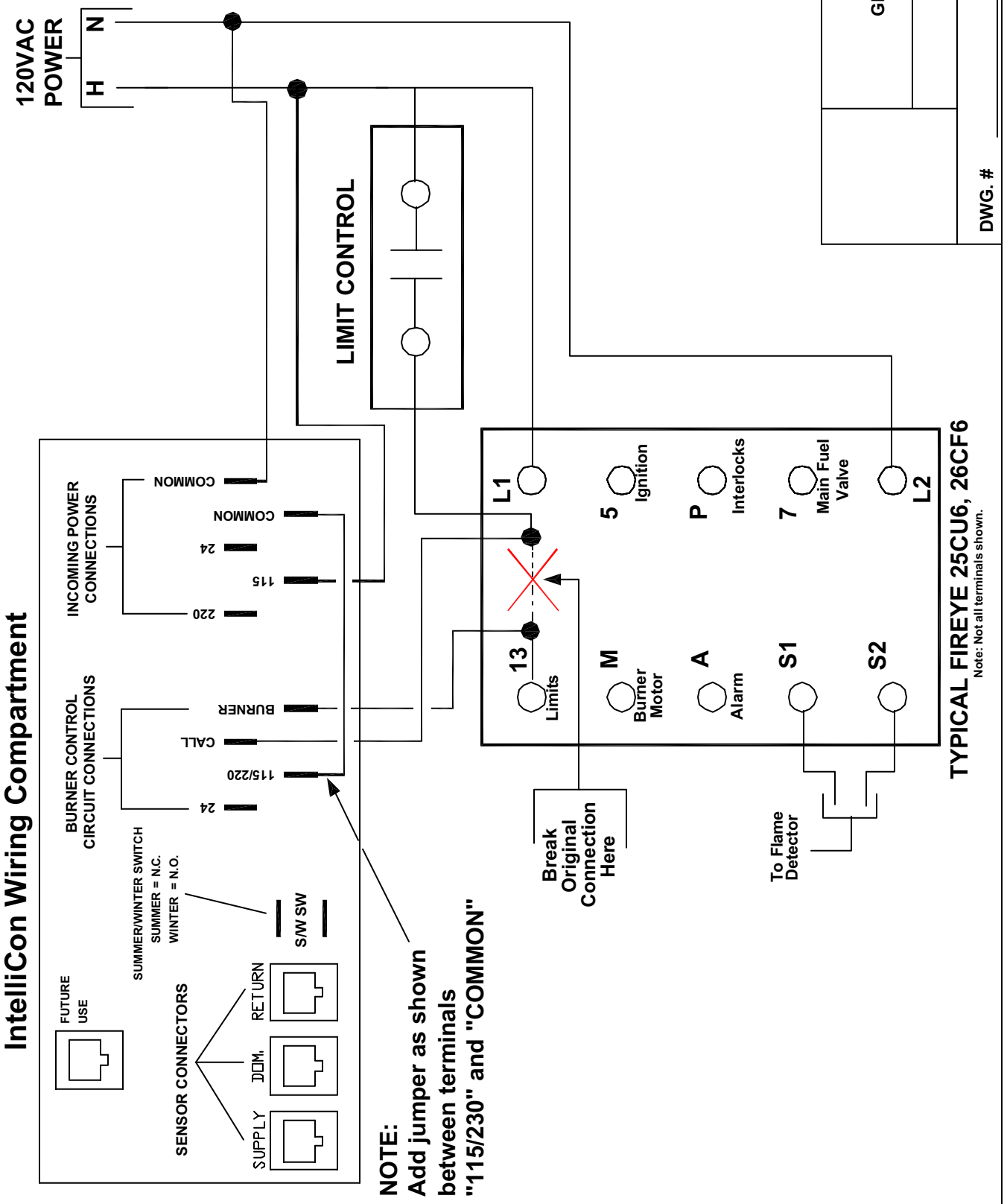
DATE:

IntelliCon CHS or CHW With Fireye

25CU6 Model 3010, 3011

26CF6 Model 5022



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DWGDESC

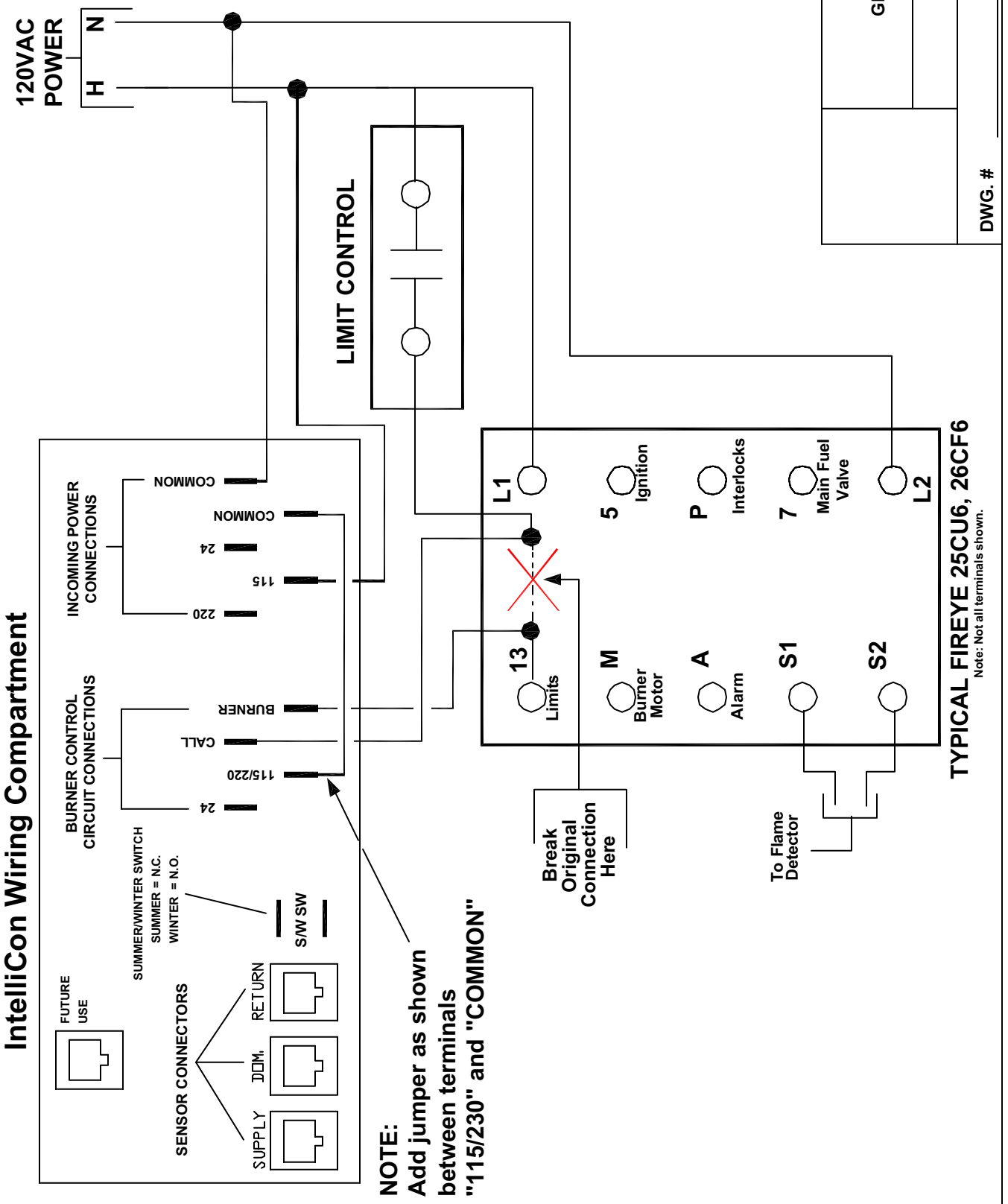
DWG. #

DATE:

IntelliCon CHS or CHW With Fireye

25CU6 Model 3010, 3011

26CF6 Model 5022



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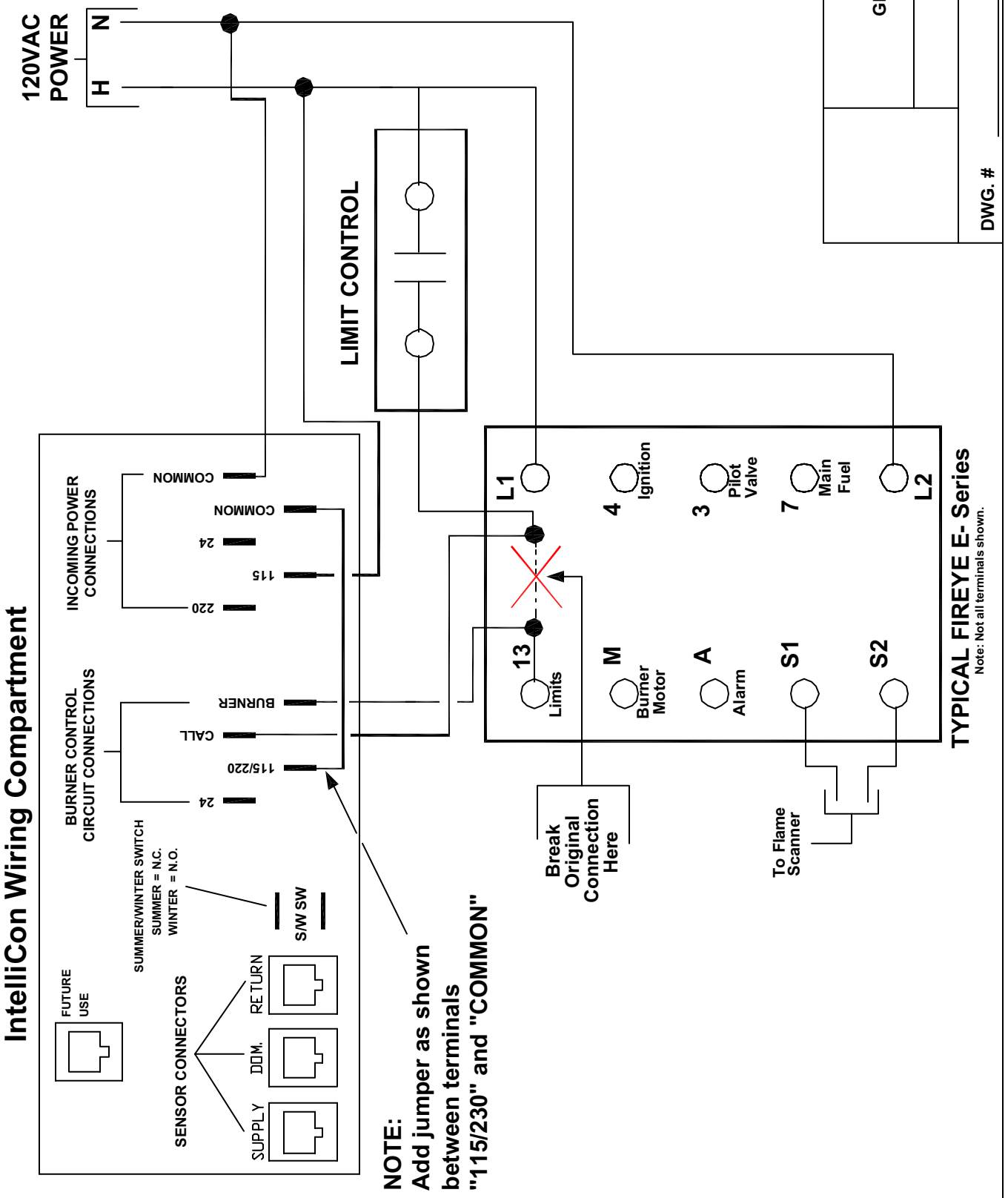
DWGDESC

DWG. #

DATE:

IntelliCon CHS or CHW With Fireye

EP (D) 160
EP 161
EP (D) 170
Flame Monitors



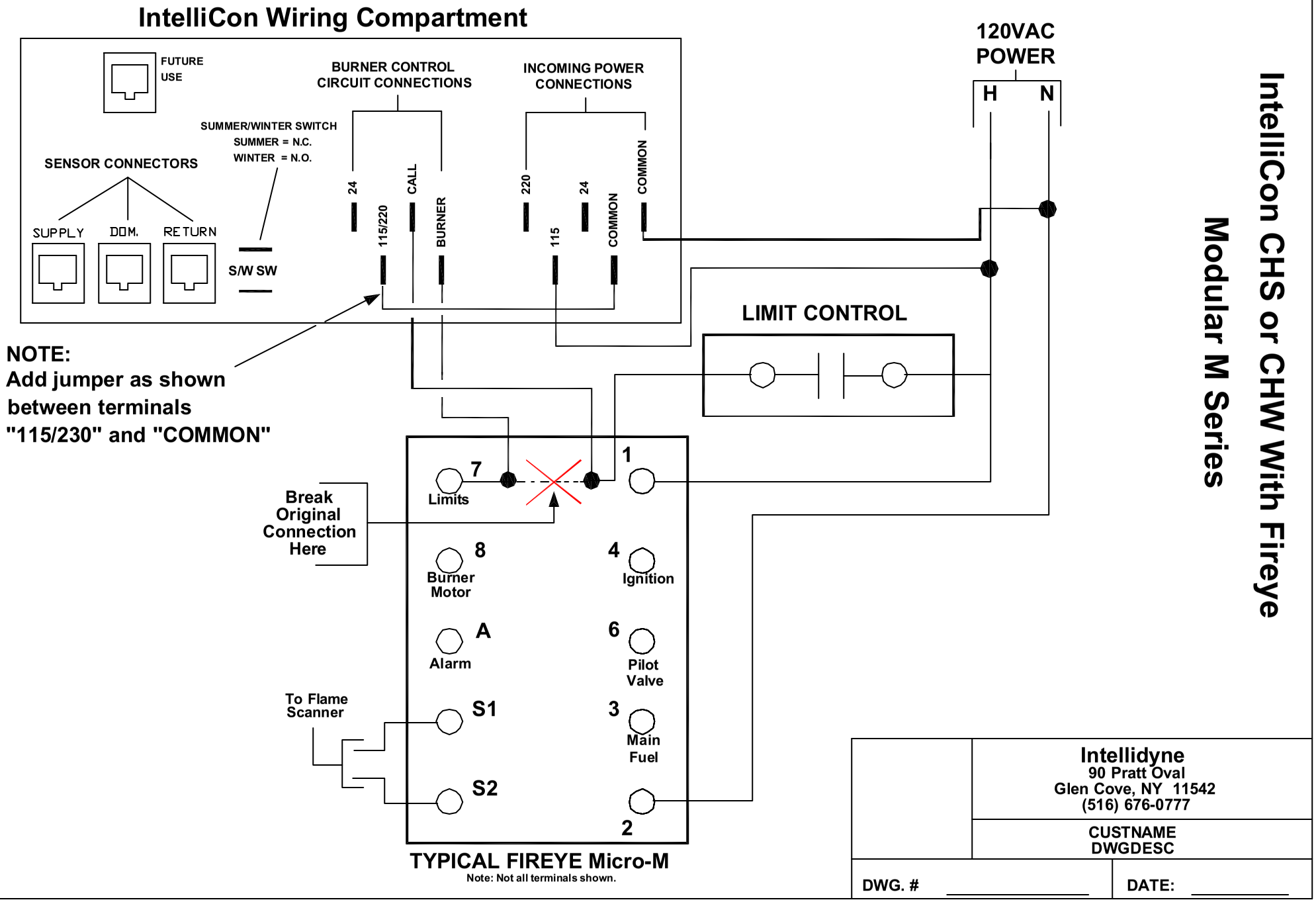
Intellidyne
90 Pratt Oval
Glen Cove, NY 11542
(516) 676-0777

CUSTNAME
DWGDESC

DATE:

DWG. #

IntelliCon CHS or CHW With Fireye
Modular M Series



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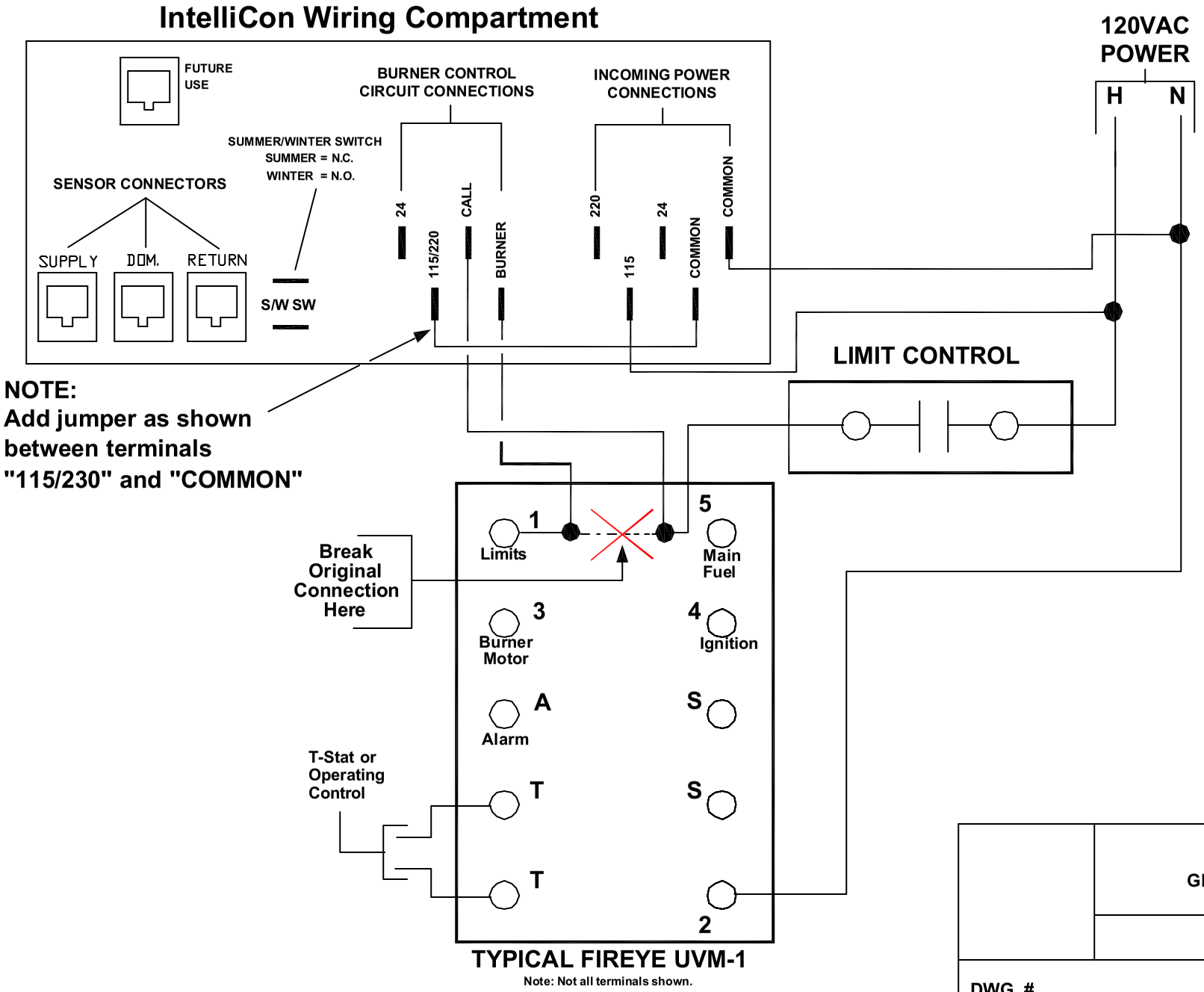
(516) 676-0777

CUSTNAME
DWGDESC

DWG. # _____ DATE: _____

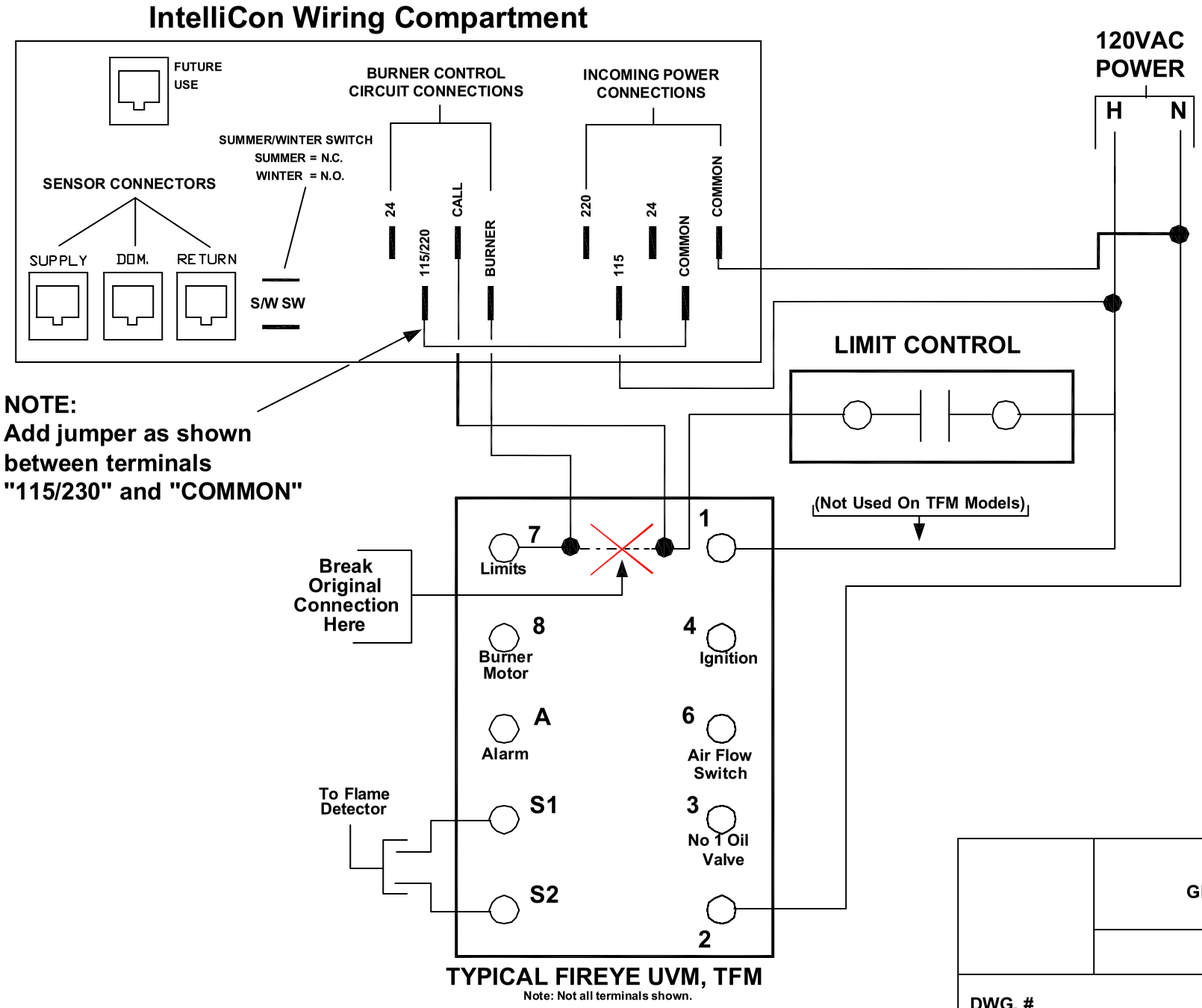
IntelliCon CHS or CHW With Fireye UVM - 1



	Intellidyne 90 Pratt Oval Glen Cove, NY 11542 (516) 676-0777
	CUSTNAME DWGDESC
DWG. # _____	DATE: _____

IntelliCon CHS or CHW With FIREYE

UVM-1D, 1F, 2A, 3
TFM-1D,1F, 2A, 3



TYPICAL FIREYE UVM, TFM

Note: Not all terminals shown.

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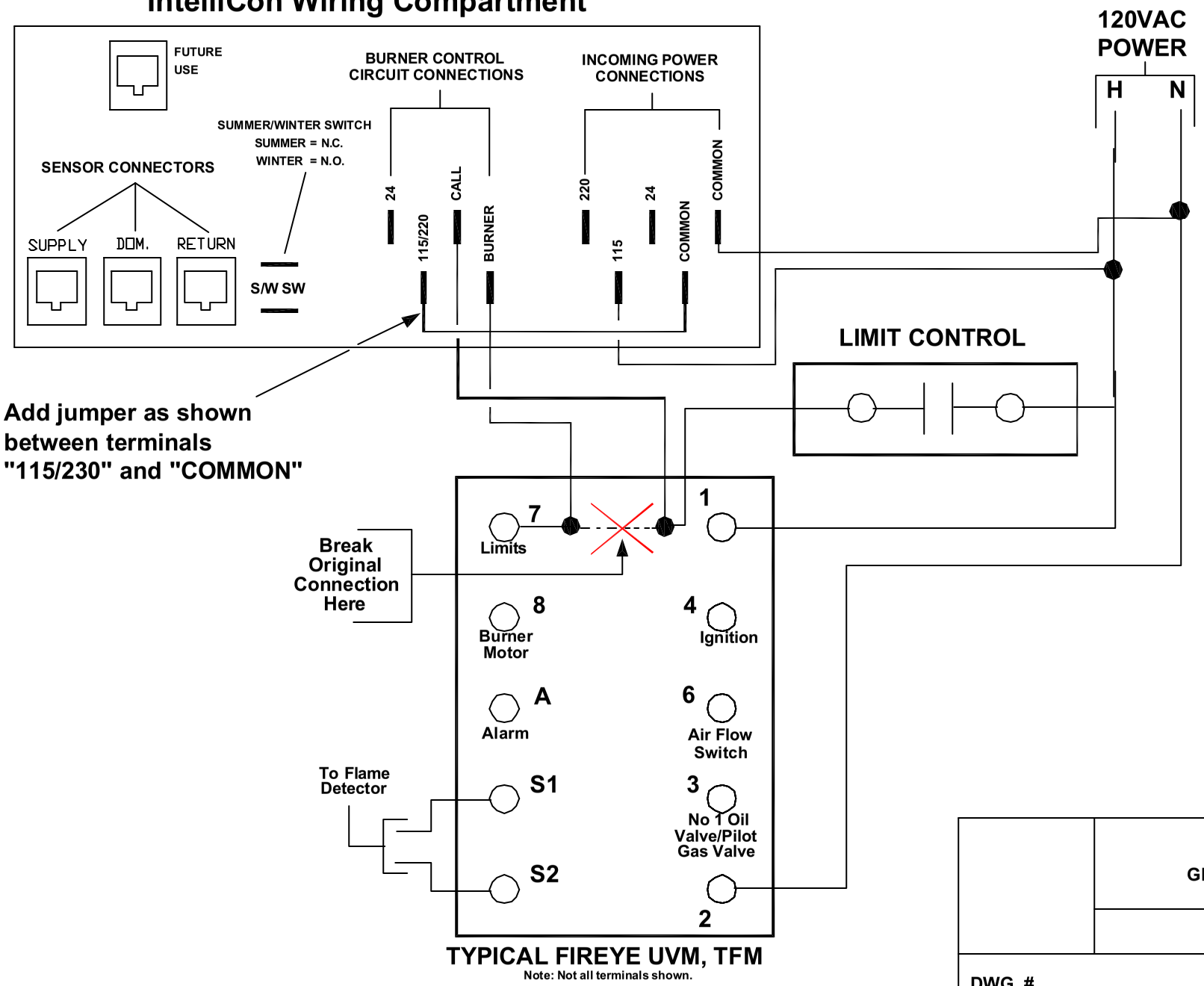
DWG. # _____ DATE: _____

IntelliCon CHS or CHW With FIREYE UVM-2A and TFM-2A



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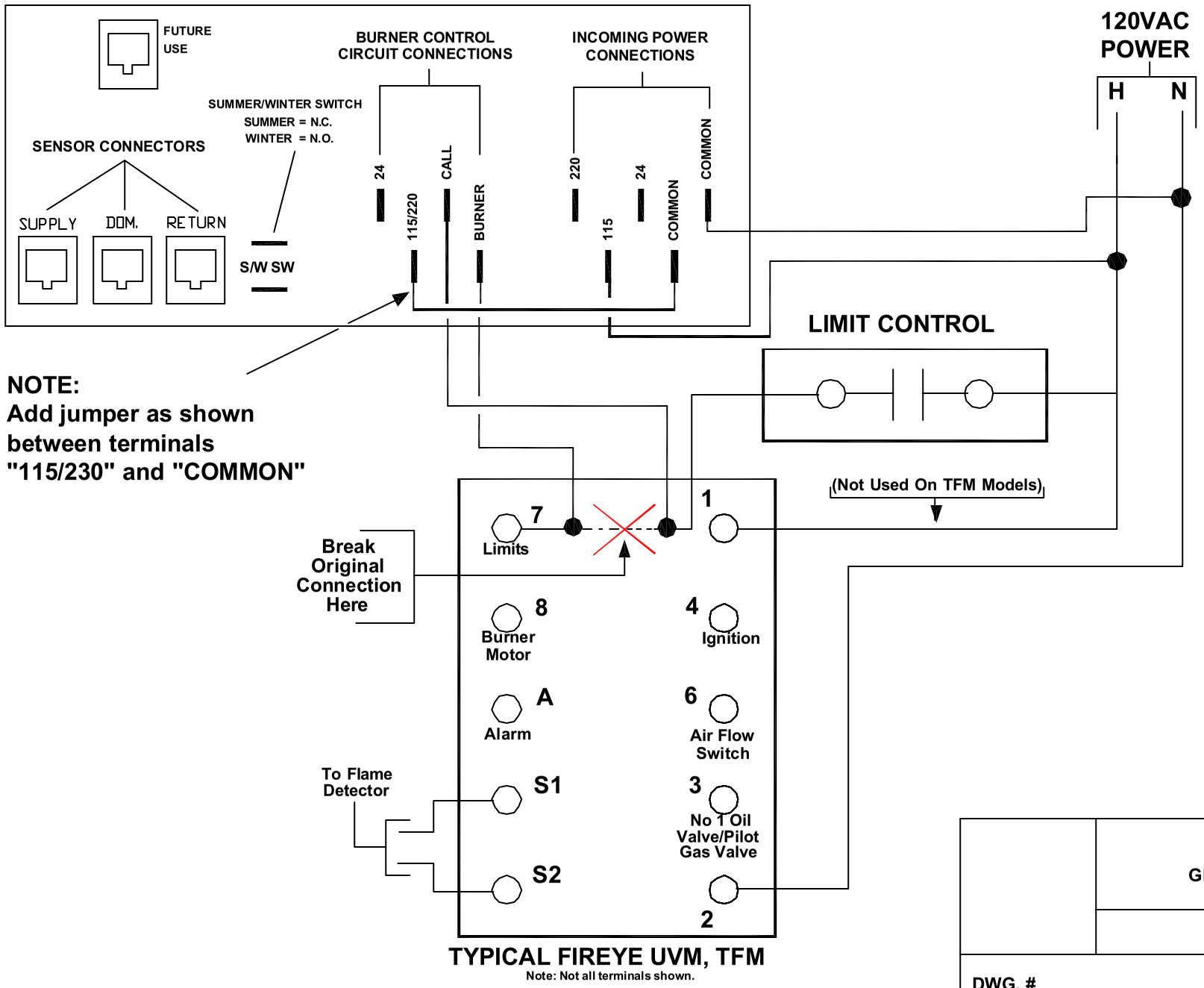
DWGDESC

DWG. # _____ DATE: _____

3/06/06

IntelliCon CHS or CHW With FIREYE UVM-3 and TFM-3

IntelliCon Wiring Compartment



TYPICAL FIREYE UVM, TFM

Note: Not all terminals shown.

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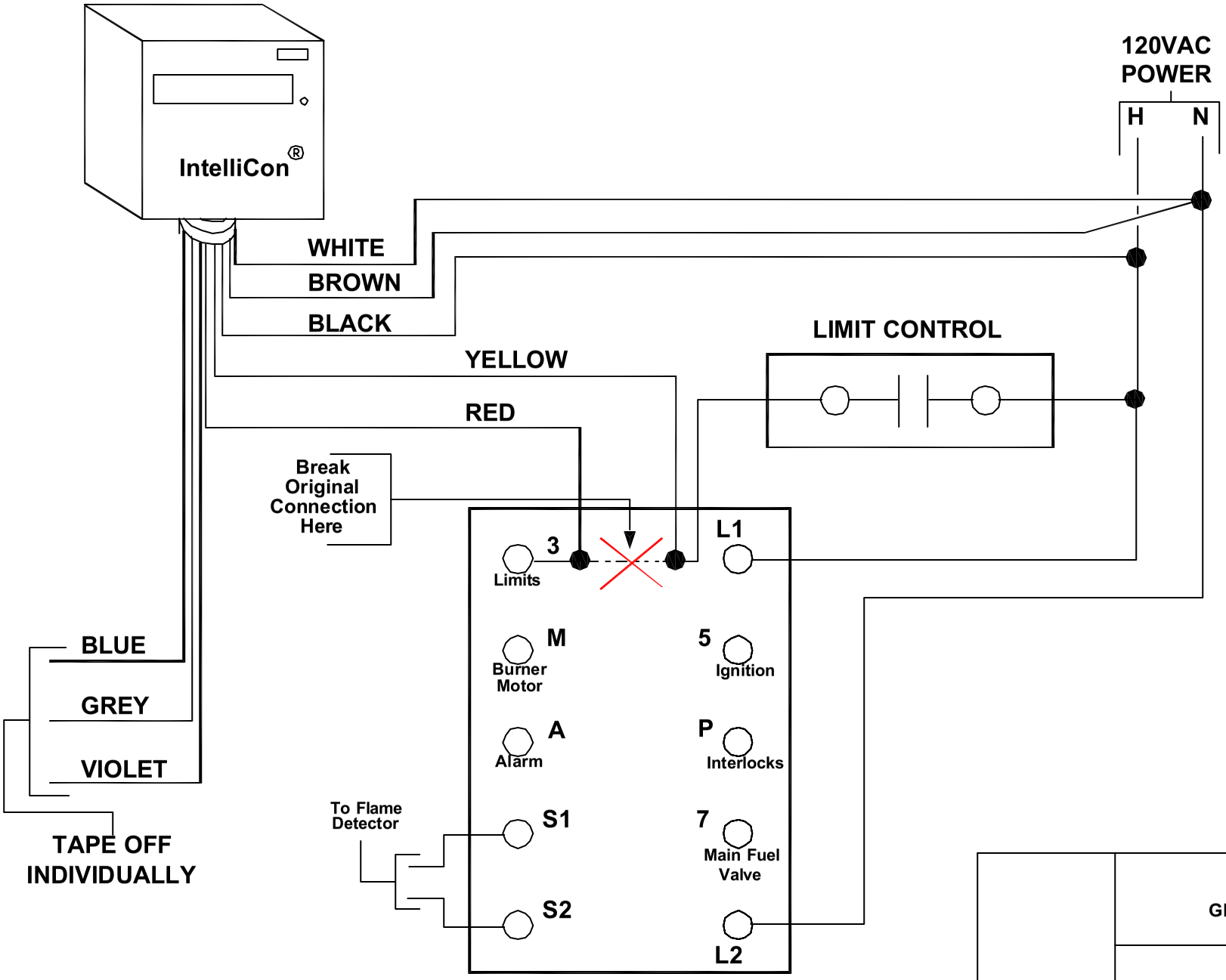
DWG. # _____ DATE: _____

IntelliCon LCH or LCS With FIREYE

24CJ5 Model 3010, 3011
25CU6 Model 1062,1063
26CF6 Model 1010, 1011



TYPICAL FIREYE 24CJ5, 25CU6, 26CF6

Note: Not all terminals shown.

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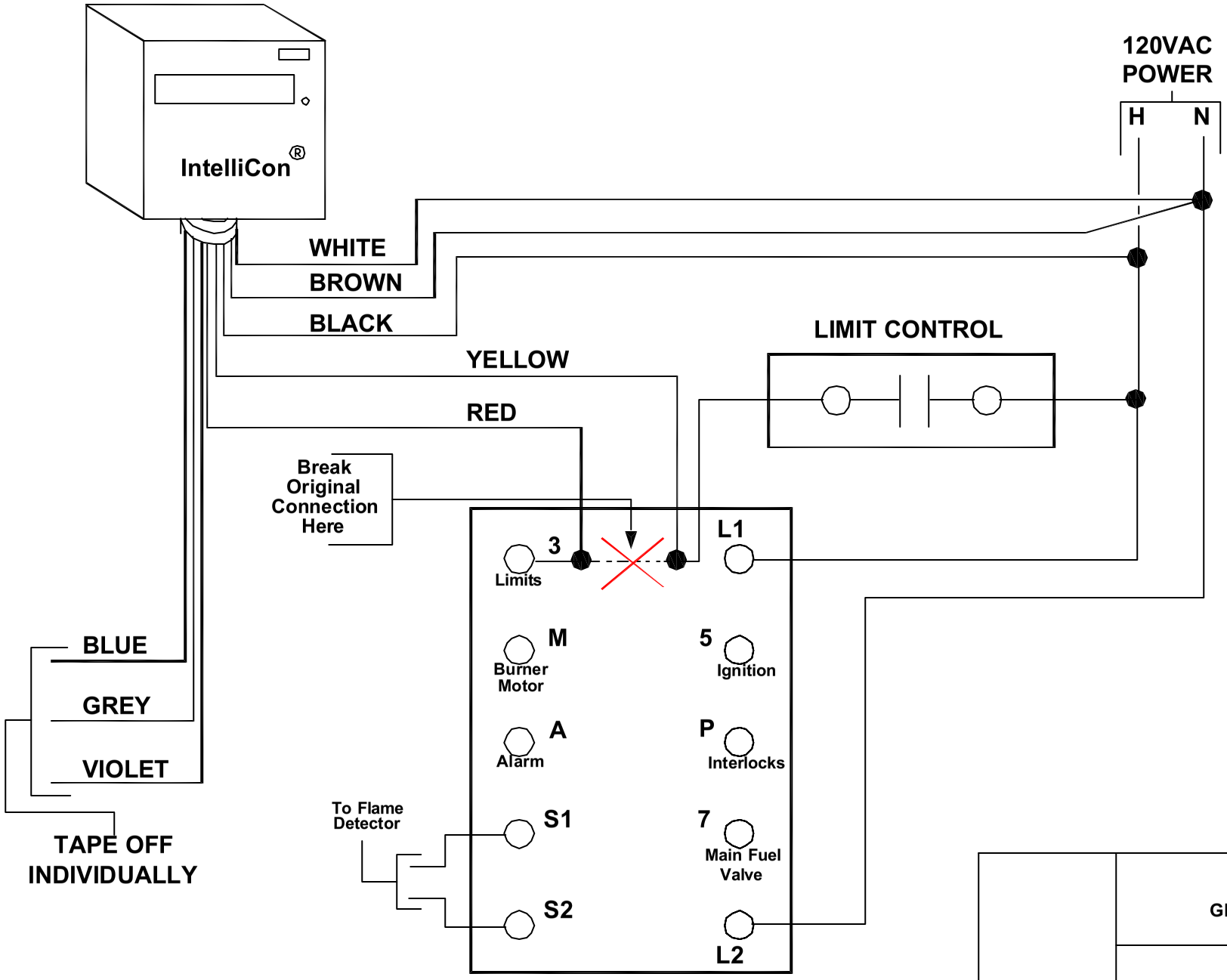
DWG. # _____ DATE: _____

IntelliCon LCH or LCS With FIREYE

24CJ5 Model 3010, 3011
25CU6 Model 1062,1063
26CF6 Model 1010, 1011



TYPICAL FIREYE 24CJ5, 25CU6, 26CF6

Note: Not all terminals shown.

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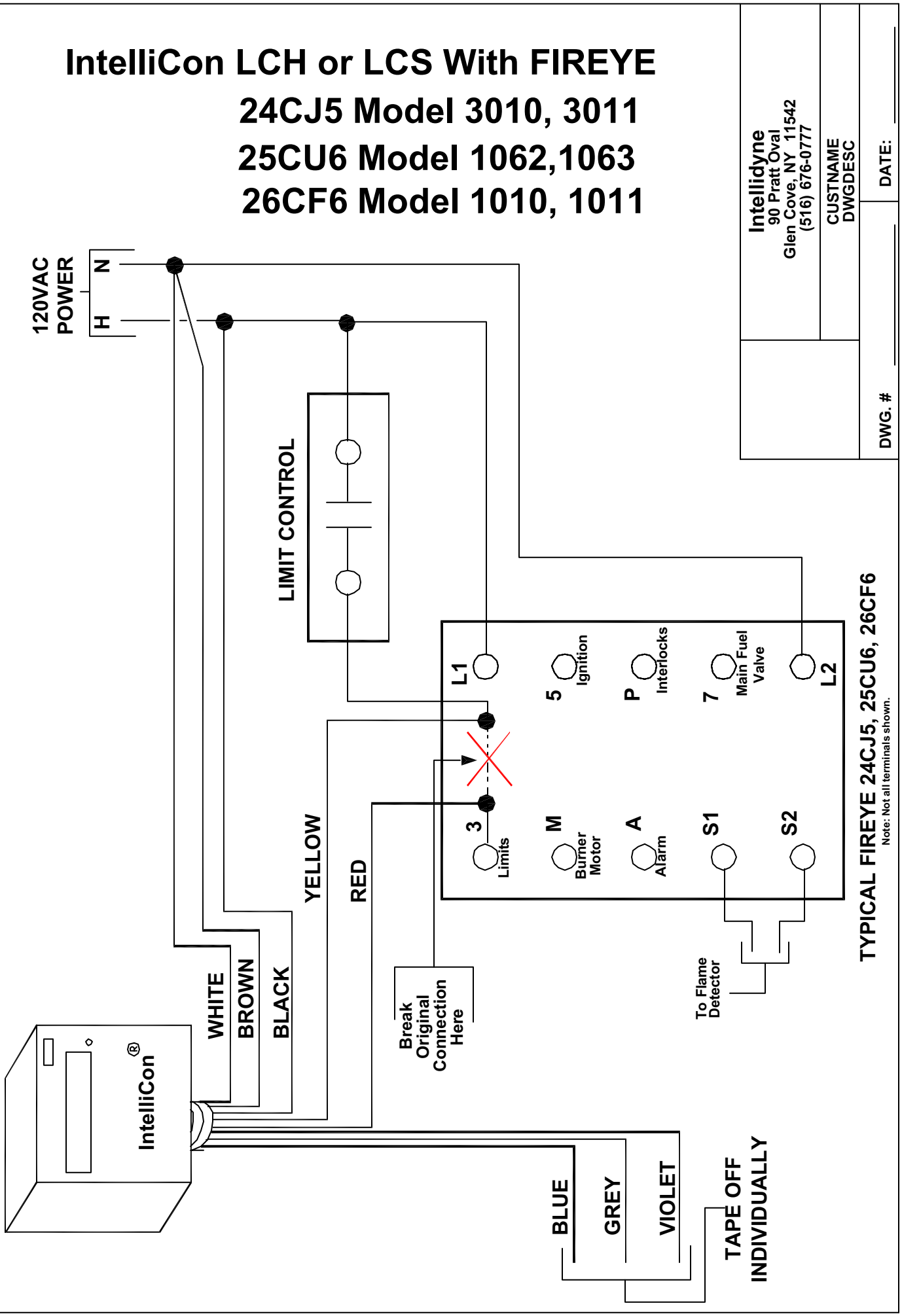
DWG. # _____ DATE: _____

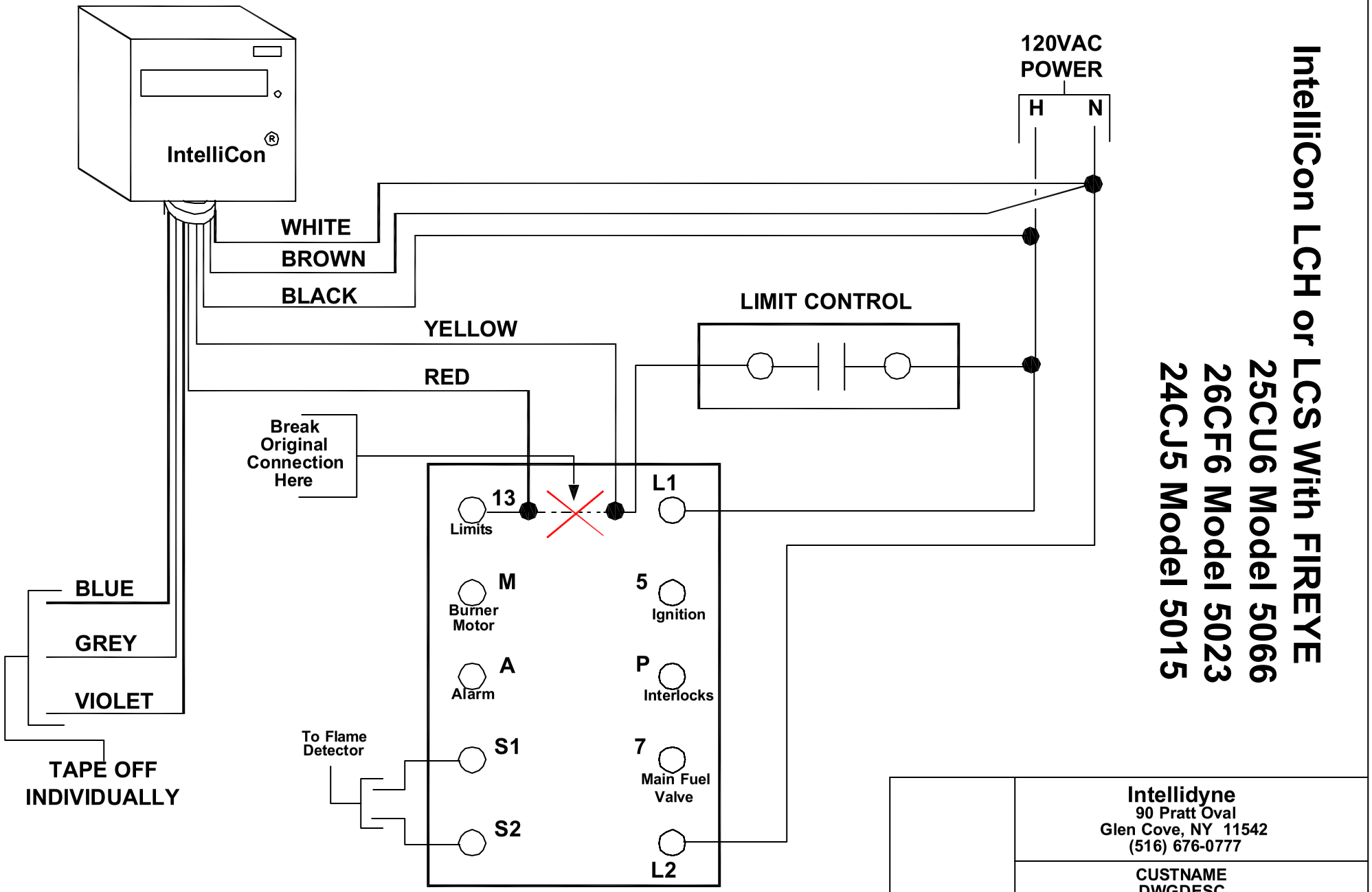
IntelliCon LCH or LCS With FIREYE

24CJ5 Model 3010, 3011
25CU6 Model 1062,1063
26CF6 Model 1010, 1011



IntelliCon LCH or LCS With FIREYE

25CU6 Model 5066
26CF6 Model 5023
24CJ5 Model 5015



TYPICAL FIREYE 25CU6, 26CF6, 24CJ5

Note: Not all terminals shown.

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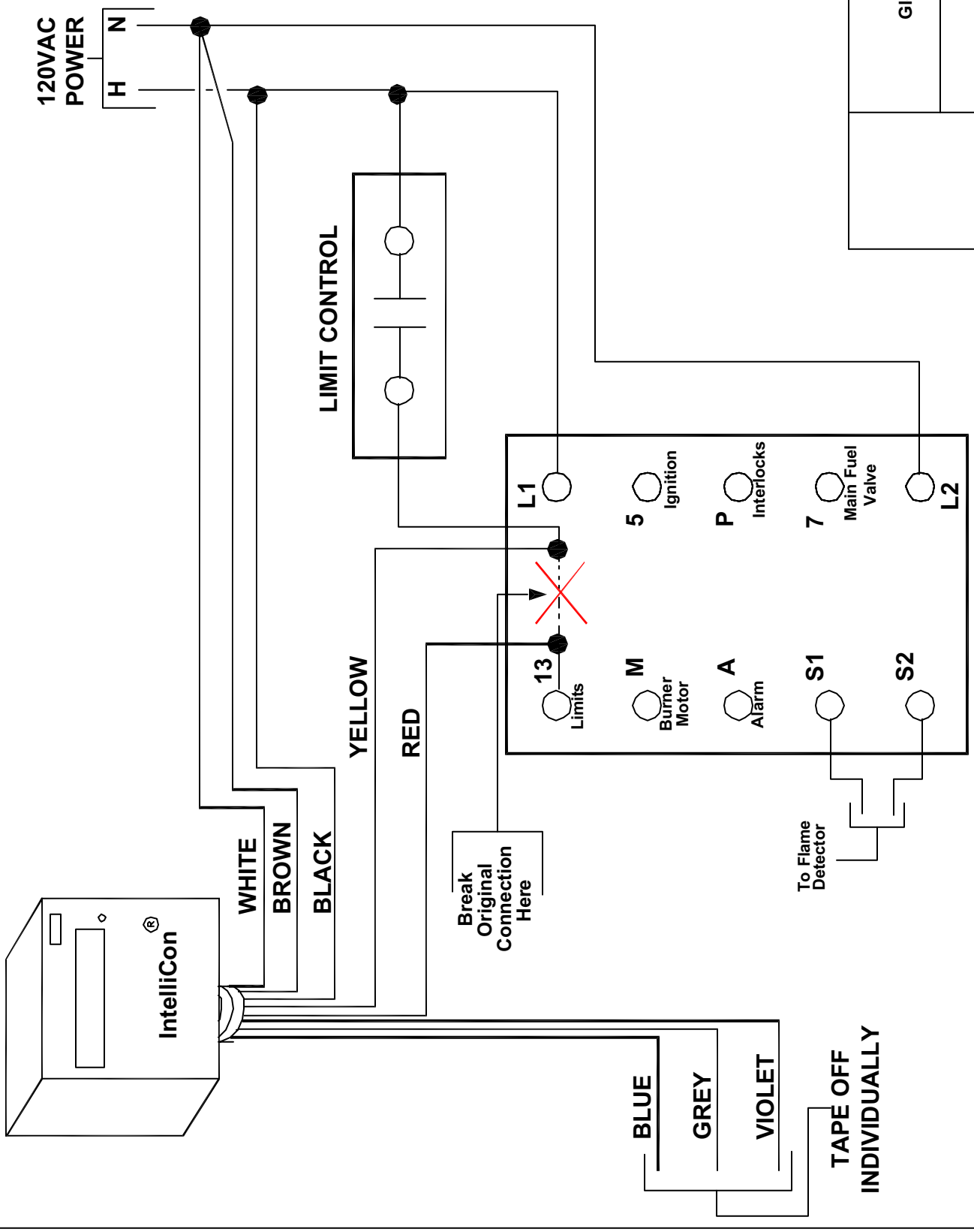
IntelliCon LCH or LCS With FIREYE
25CU6 Model 5066
26CF6 Model 5023
24CJ5 Model 5015



TYPICAL FIREYE 25CU6, 26CF6, 24CJ5

Note: Not all terminals shown.

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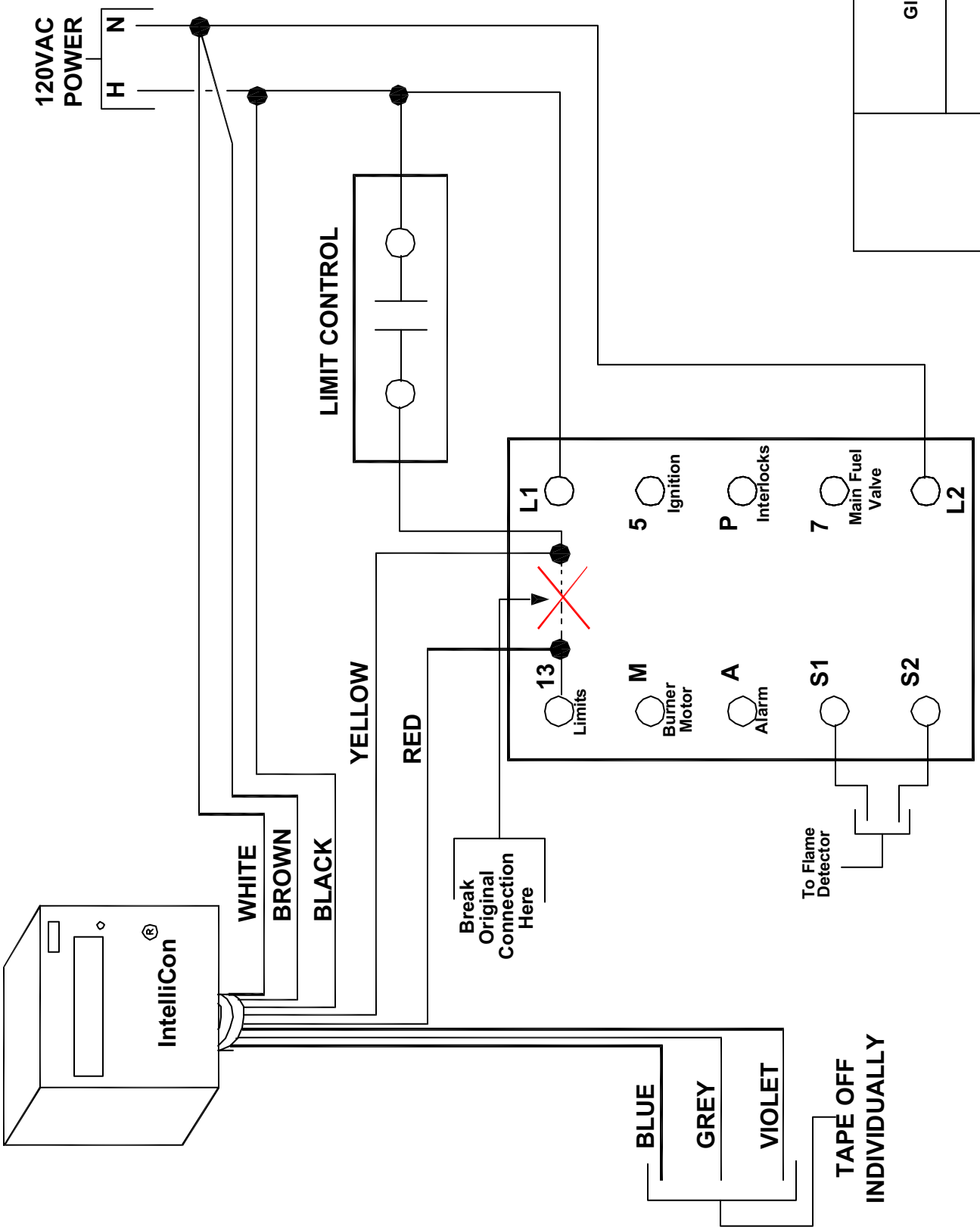
DATE:

DWG. #

IntelliCon LCH or LCS With FIREYE
25CU6 Model 5066
26CF6 Model 5023
24CJ5 Model 5015



TYPICAL FIREYE 25CU6, 26CF6, 24CJ5

Note: Not all terminals shown.

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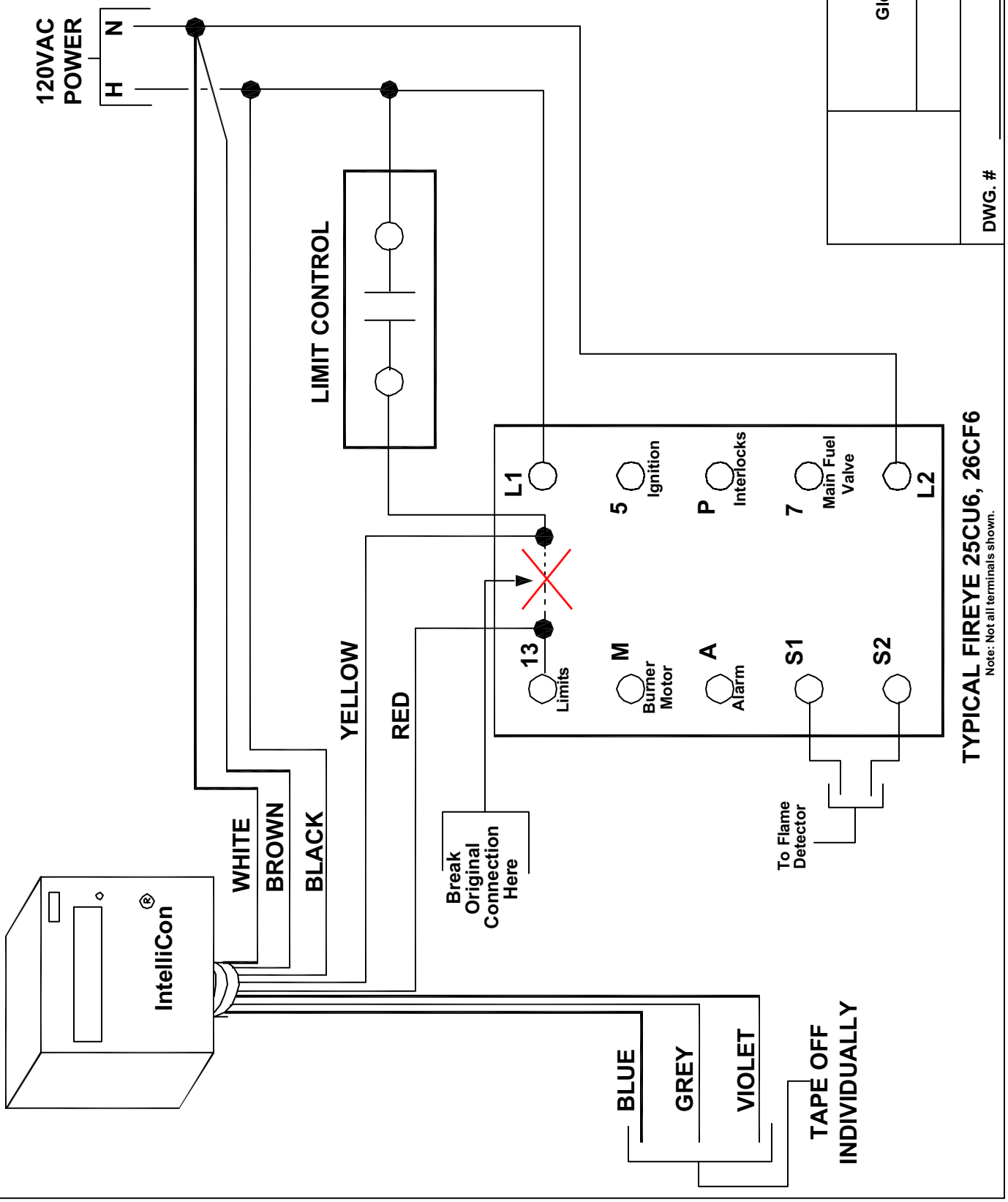
DWG. #

DATE:

IntelliCon LCH or LCS With FIREYE

25CU6 Model 5065

26CF6 Model 5022



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Glen Cove, NY 11542
(516) 676-0777

CUSTNAME
DWGDESC

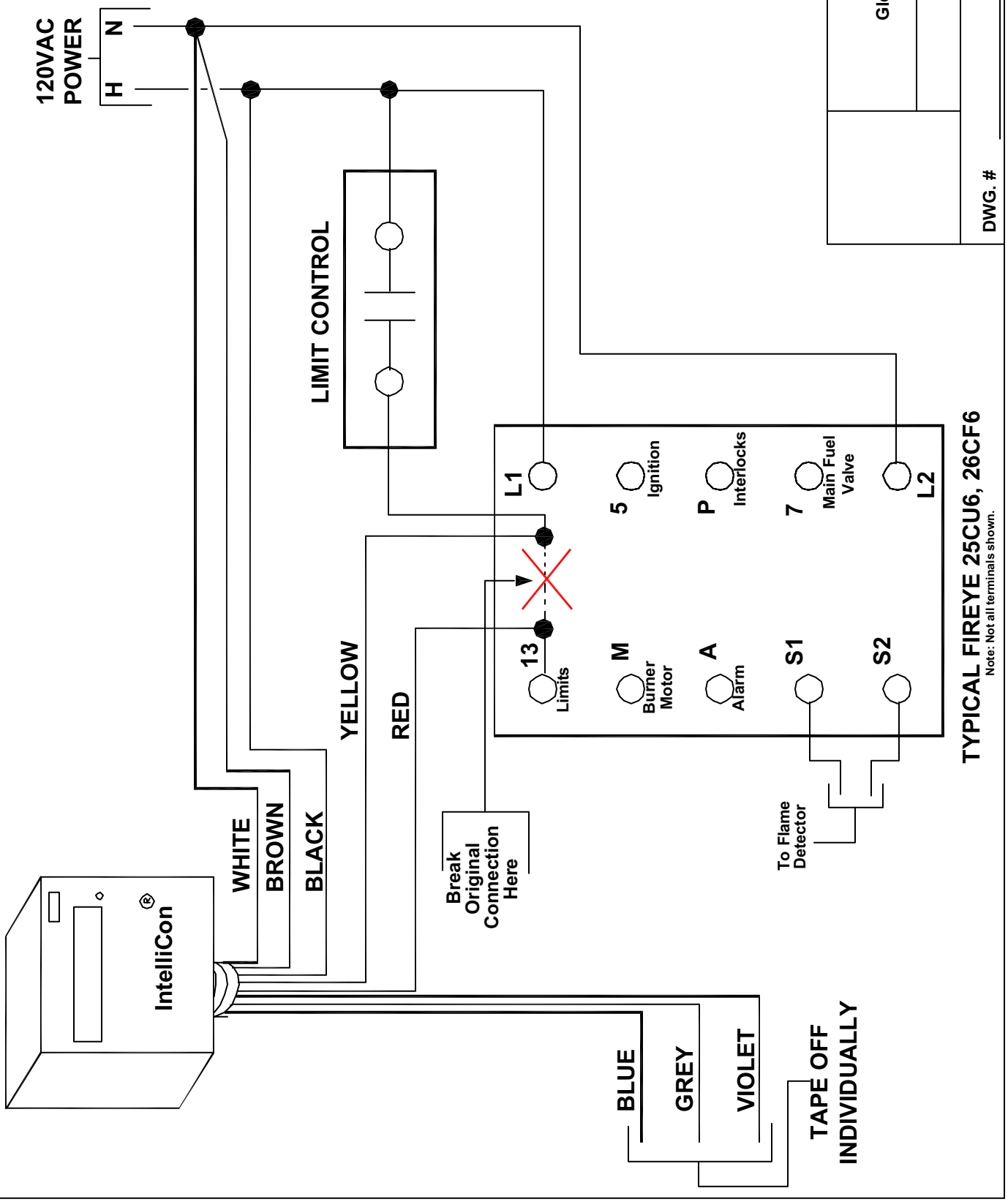
DWG. #

DATE:

IntelliCon LCH or LCS With FIREYE

25CU6 Model 5065

26CF6 Model 5022



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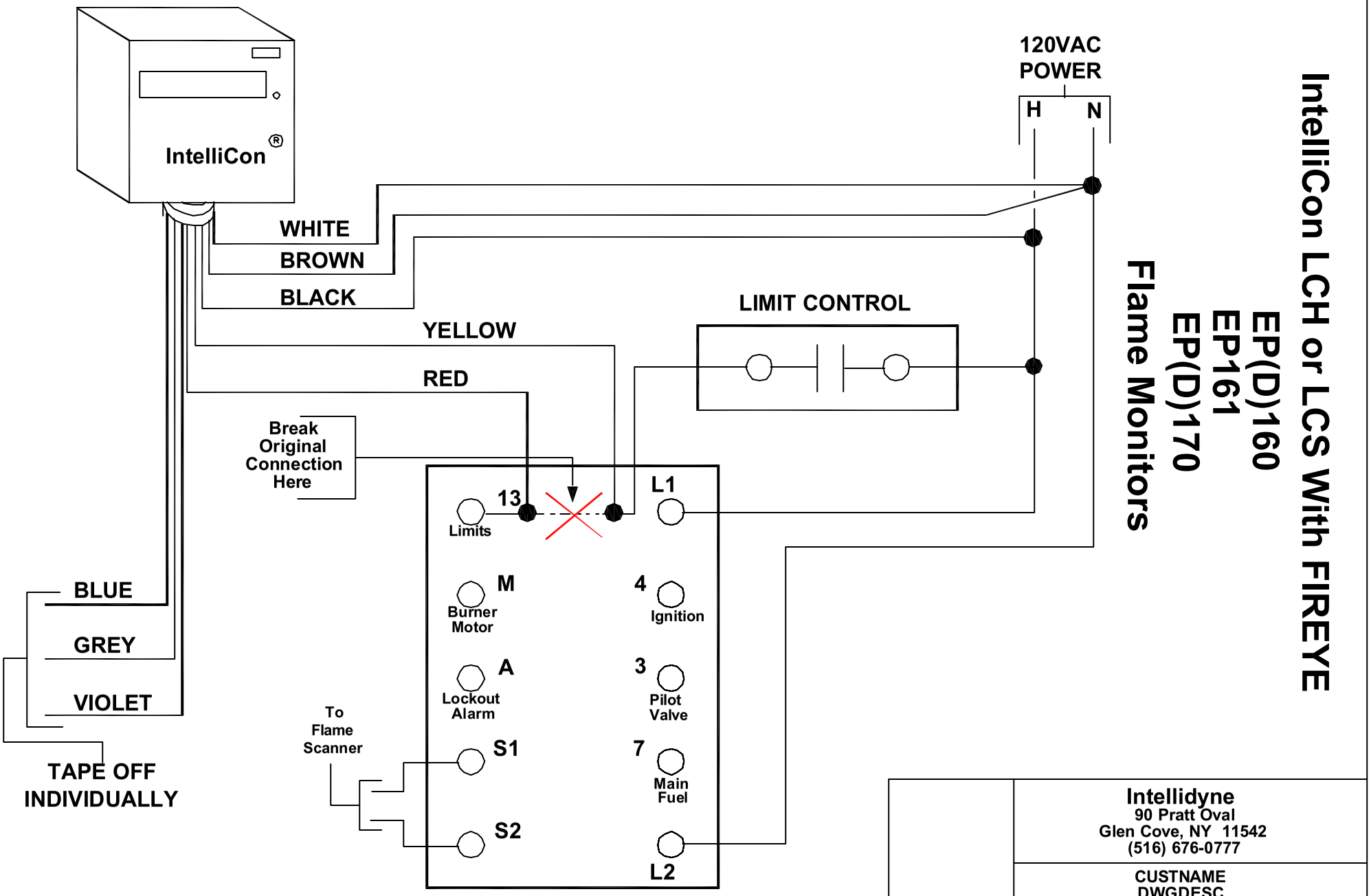
DWG. #

DATE:

IntelliCon LCH or LCS With FIREYE

EP(D)160
EP161
EP(D)170
Flame Monitors



TYPICAL FIREYE E-Series

Note: Not all terminals shown.

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(516) 676-0777

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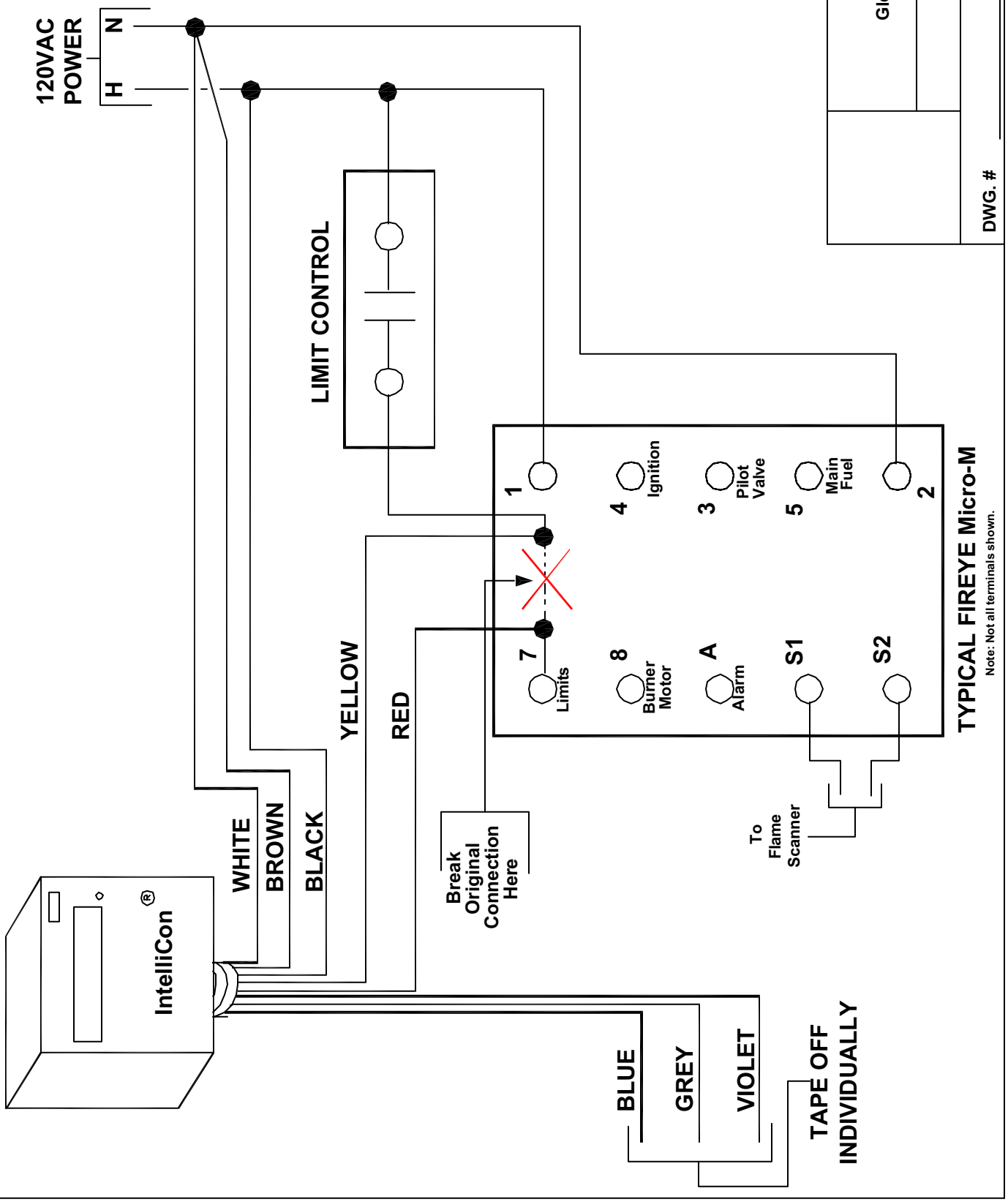
3/06/06

IntelliCon LCH or LCS With FIREYE

Modular M Series



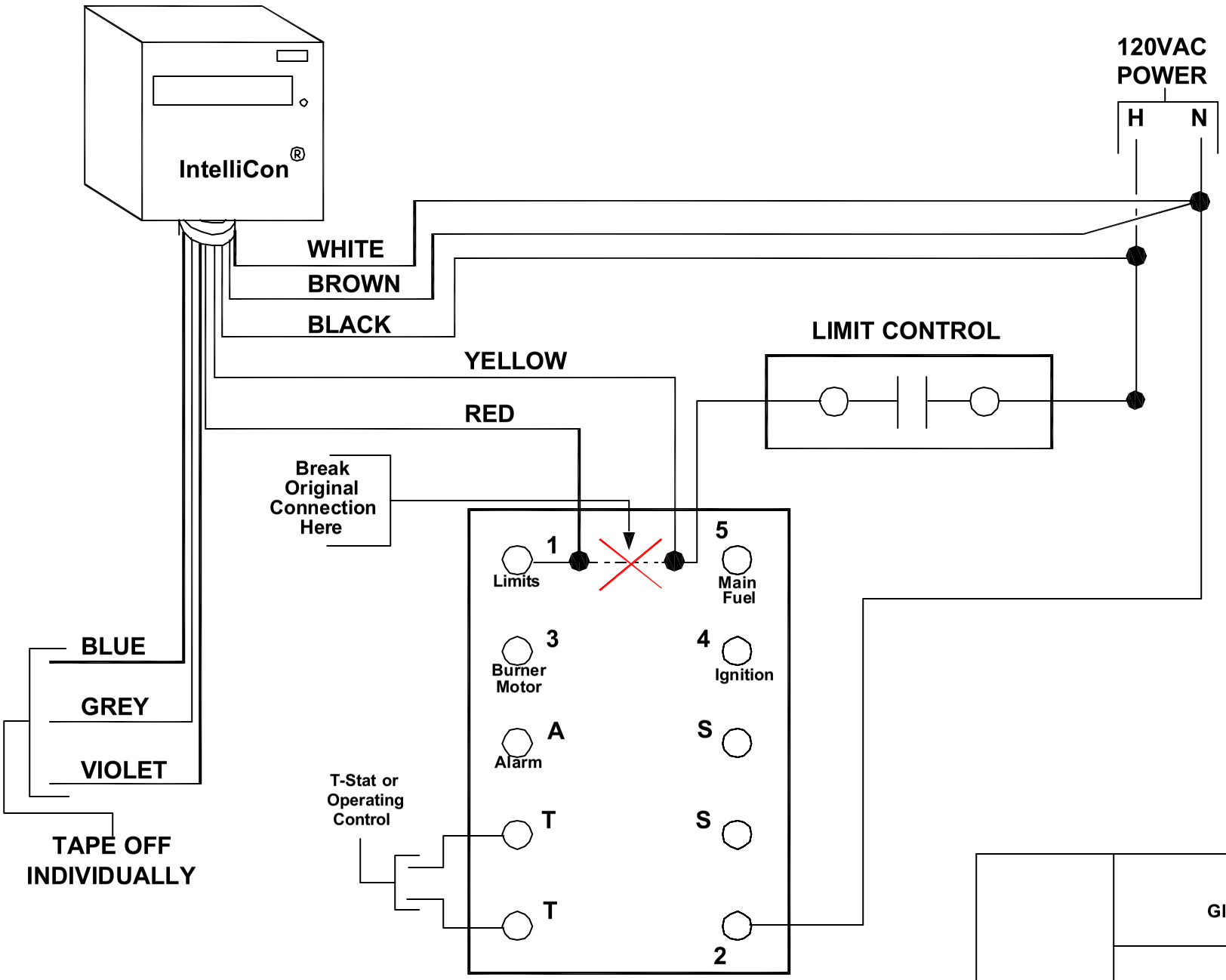
Intellidyne
90 Pratt Oval
Glen Cove, NY 11542
(516) 676-0777

CUSTNAME
DWGDESC

DATE:

DWG. #

IntelliCon LCH or LCS With FIREYE UVM-1



TYPICAL FIREYE UVM-1

Note: Not all terminals shown.

Intellidyne
90 Pratt Oval
Glen Cove, NY 11542
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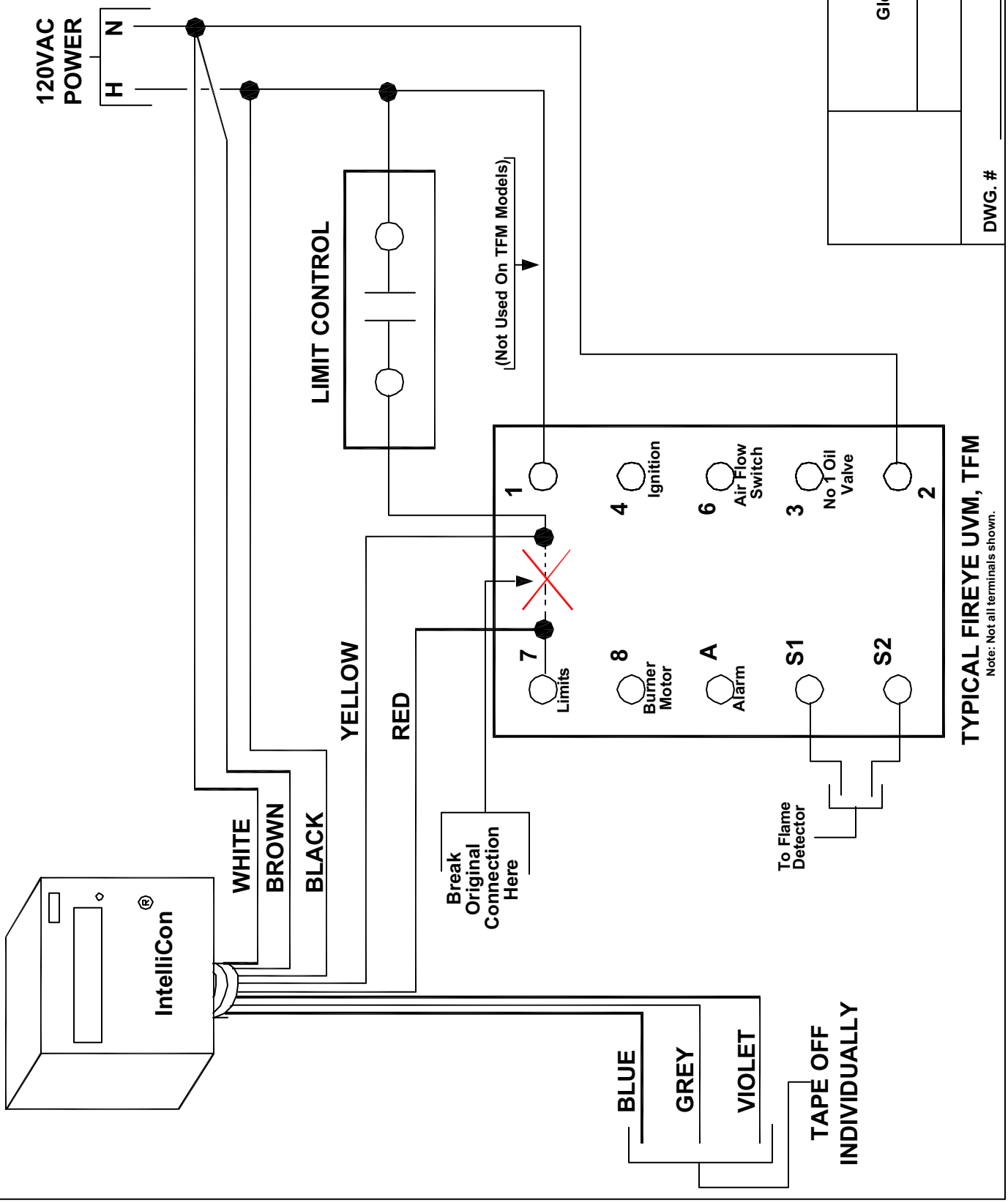
3/06/06

IntelliCon LCH or LCS With FIREYE
UVM-1D, 1F, 2A, 3
TFM-1D, 1F, 2A, 3



Intellidyne
90 Pratt Oval
Glen Cove, NY 11542
(516) 676-0777

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DATE:

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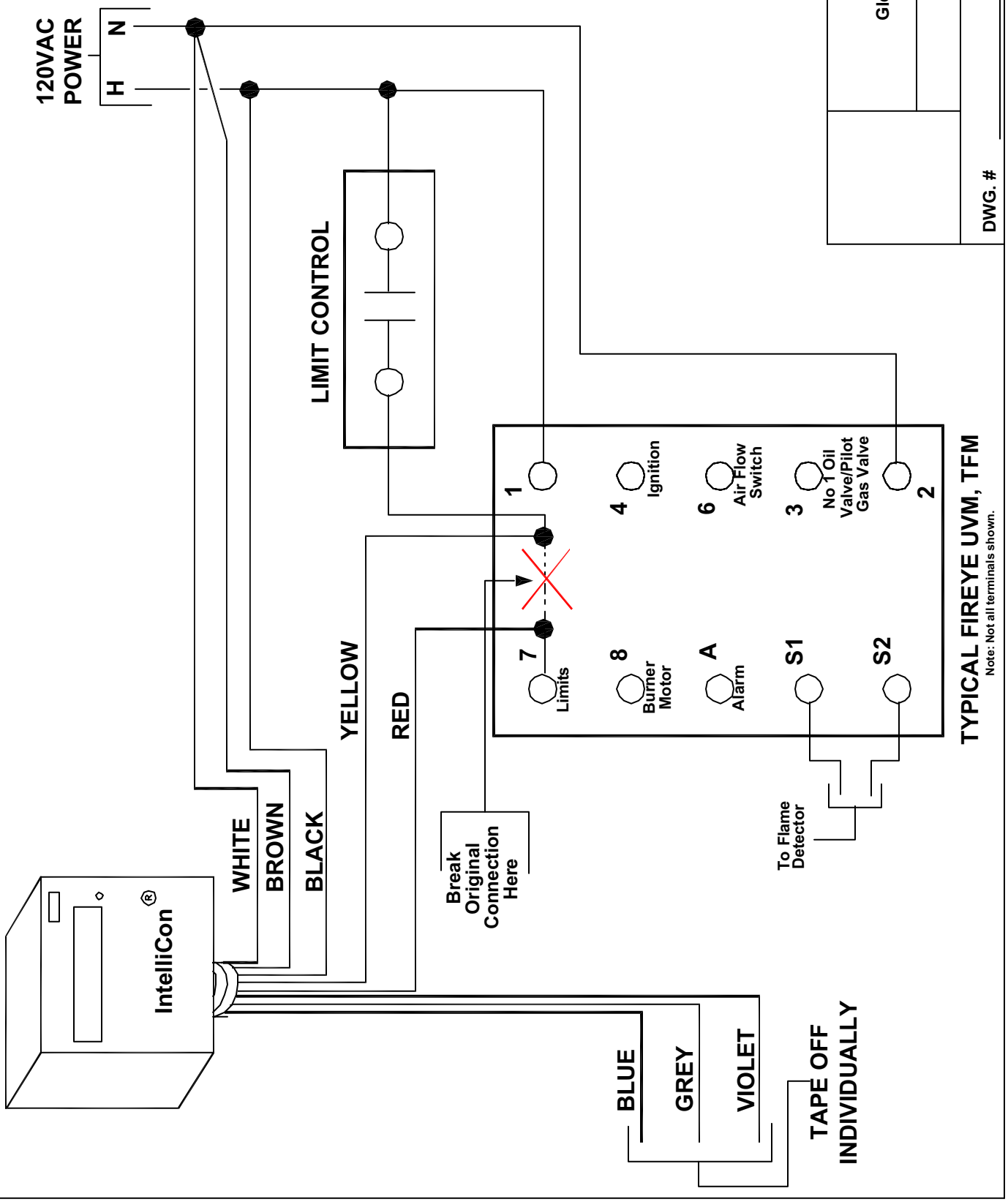
IntelliCon LCH With FIREYE UVM-2A and TFM-2A



Intellidyne
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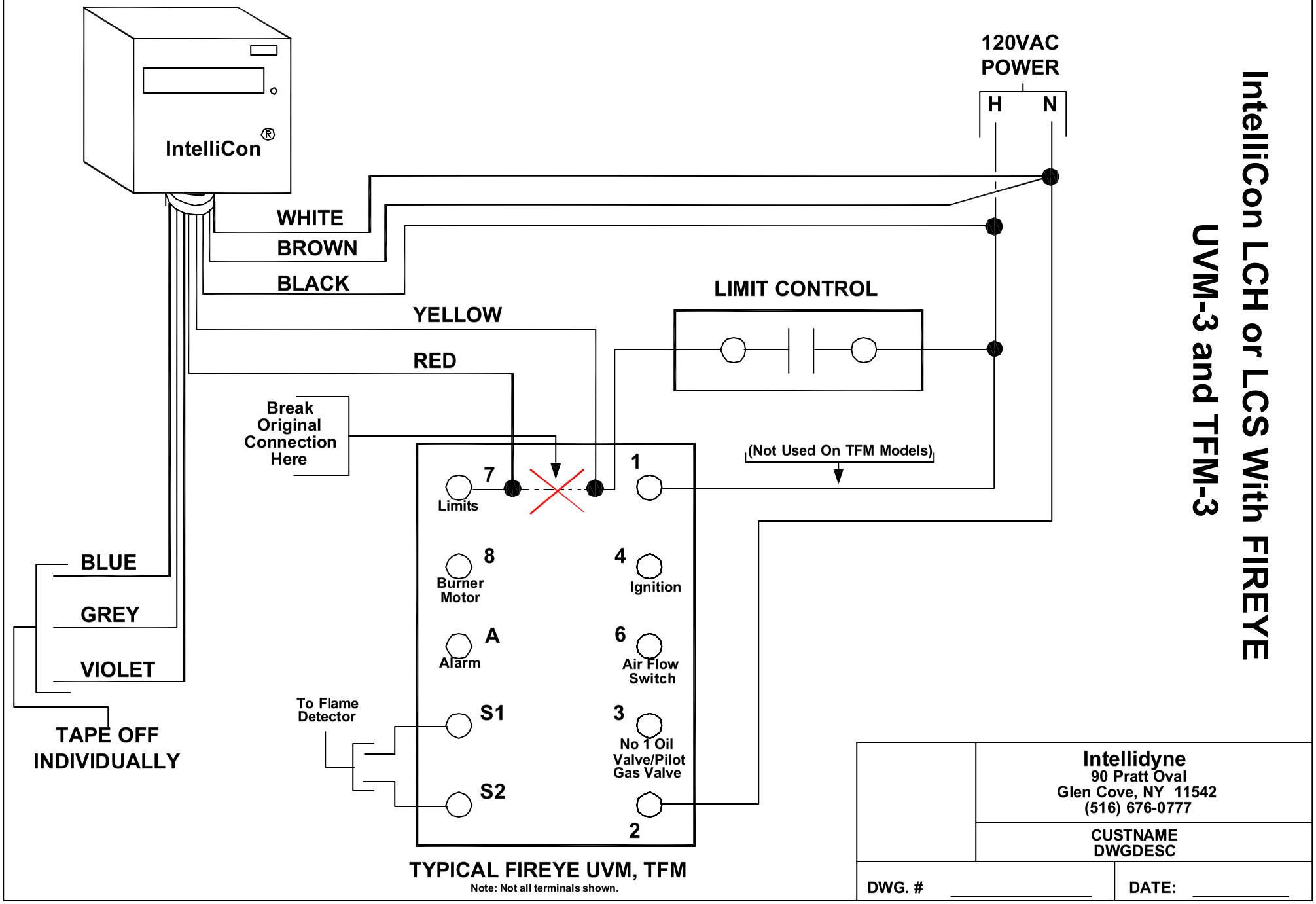
Glen Cove, NY 11542
(516) 676-0777

CUSTNAME
DWGDESC

DWG. #

DATE:

IntelliCon LCH or LCS With FIREYE UVM-3 and TFM-3



TYPICAL FIREYE UVM, TFM

Note: Not all terminals shown.

Intellidyne
90 Pratt Oval
Glen Cove, NY 11542
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CUSTNAME
DWGDESC

DWG. # _____ DATE: _____

Honeywell Flame Safeguard Controls

General Instructions

The *IntelliCon*® Heating Economizers are connected in series in the burner control circuit AFTER the operating safety's and limit controls and BEFORE the burner Flame Safeguard Primary Control.

ATTENTION MUST BE GIVEN WHEN A DRAFT INDUCER IS USED ON THE BOILER

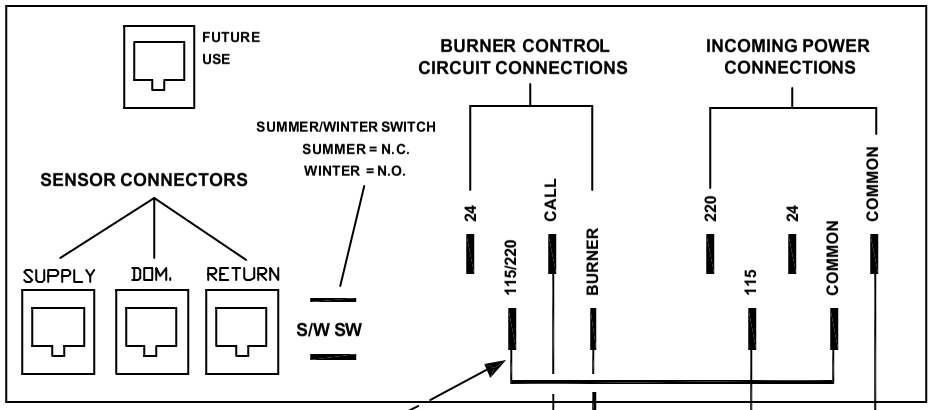
*** **When a draft inducer is being used, the operating limit control, on closure, will activate a relay, contactor or starter to enable the draft inducer. An air proving switch will close indicating that the draft inducer is running and a negative air flow has been established through the boiler. Once the negative airflow has been established the Flame Safeguard is enabled and starts the burner sequence.**

Improperly connected into the operating limit circuit, the draft inducer will run drawing ambient (or cooler) air through the boiler while the ***IntelliCon*® Heating Economizer is in the "ECONOMY" mode.**

Each installation should be checked for the proper connection point of the *IntelliCon*® Heating Economizer.

The following wiring diagrams show the connection points of the *IntelliCon*® Heating Economizer at the Honeywell Flame Safeguard ONLY. If a draft inducer is used as explained above, determine the connection point from the operating limit control BEFORE the Flame Safeguard Control.

IntelliCon Wiring Compartment



NOTE:
Add jumper as shown between terminals "115/220" and "COMMON"

Limits And Burner Controller

120VAC POWER

H

N

L1 — 120vac Hot

L2 — 120vac Neutral

F

G

9 — Alarm

8 — Burner Motor

7 — Main Fuel Valve/s

6 — Pilot/ Ignition

4 — Limit Circuit

3 — Lockout Interlockouts

Break Original Connection Here

TYPICAL R4140 or 4150

Note: Not all terminals shown.

IntelliCon CHS or CHW With Honeywell R4140G, L,M or R4150A, C, X

Intellidyne
90 Pratt Oval
Glen Cove, NY 11542
(516) 676-0777

CUSTNAME

DWG. # _____ **DATE:** _____

IntelliCon CHS or CHW With Honeywell R4795A,D

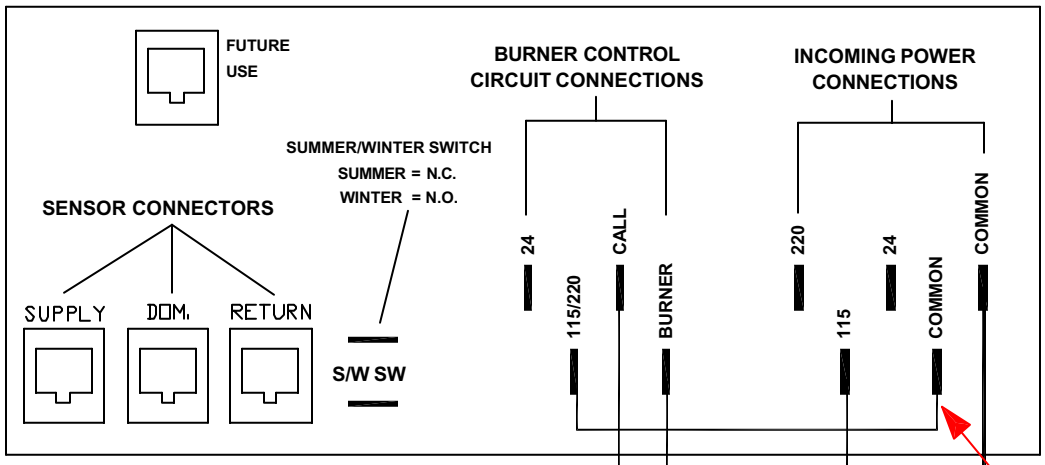
Intellidyne
90 Pratt Oval
Glen Cove, NY 11542
(516) 676-0777

CUSTNAME

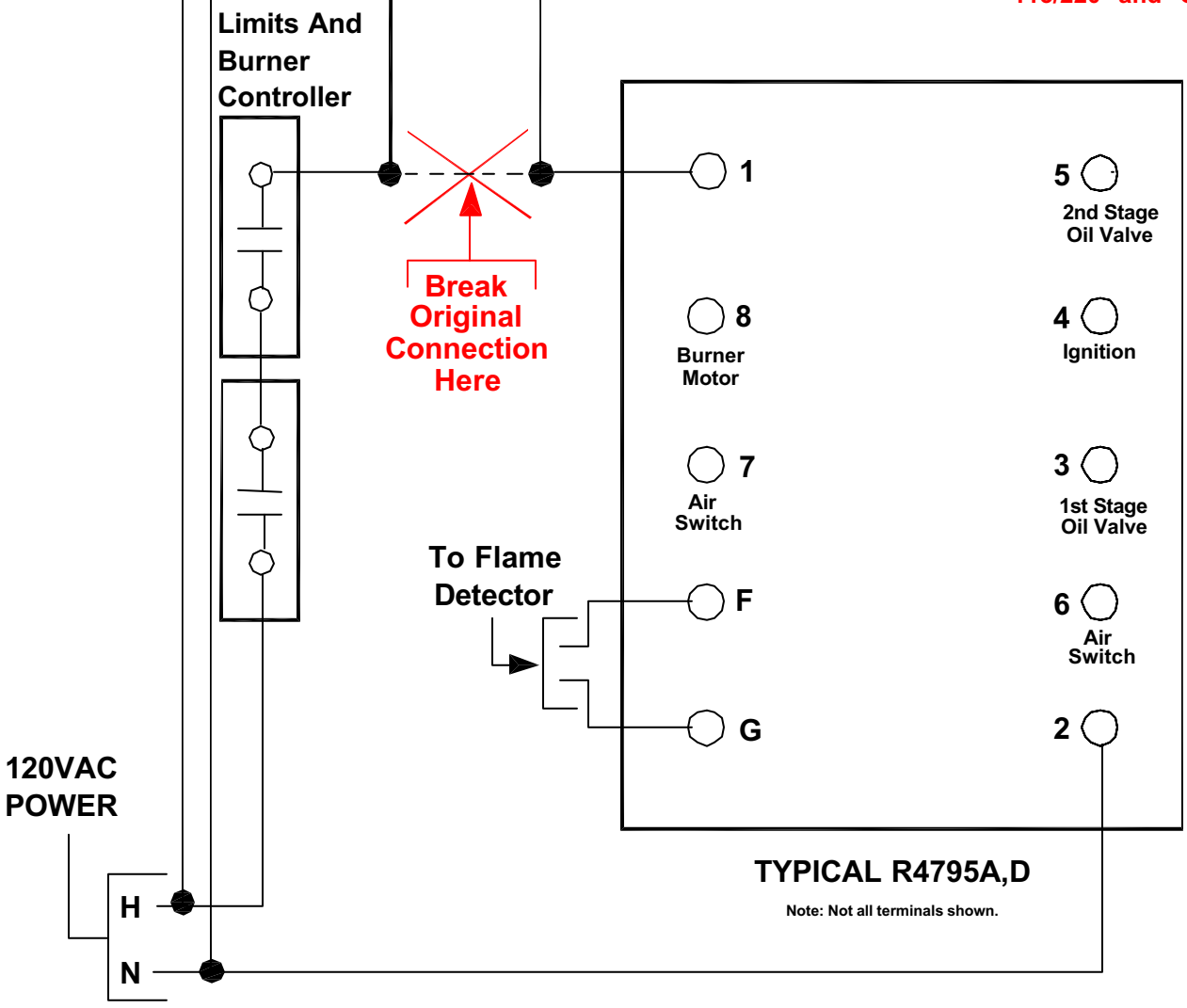
DATE:

DWG. #

IntelliCon Wiring Compartment



NOTE:
Add jumper as shown between terminals "115/220" and "COMMON"

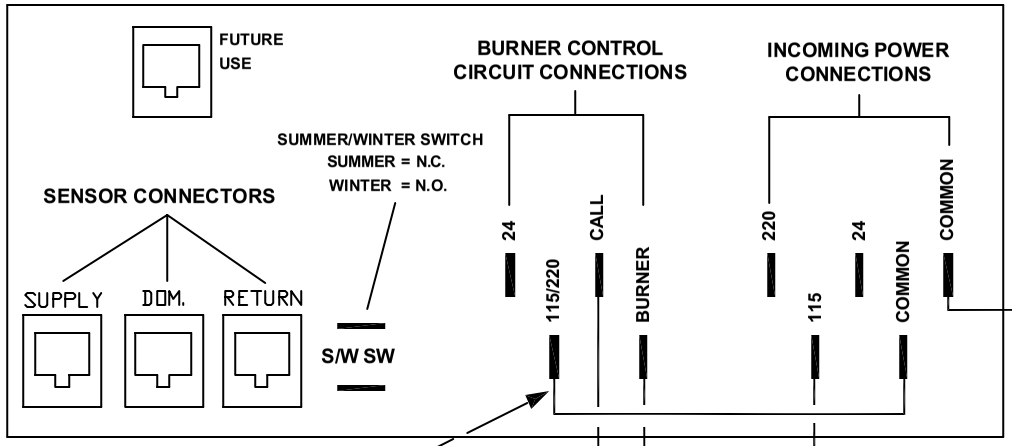


TYPICAL R4795A,D

Note: Not all terminals shown.

3/06/06

IntelliCon Wiring Compartment

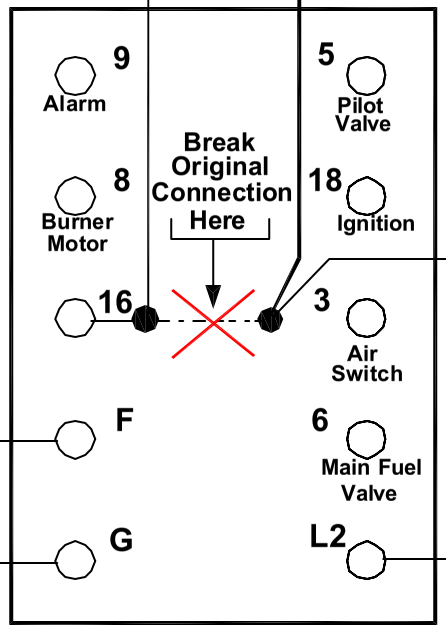


120VAC POWER

H N

NOTE:
Add jumper as shown between terminals "115/230" and "COMMON"

LIMIT CONTROL



TYPICAL R7795
Note: Not all terminals shown.

IntelliCon CHS or CHW With Honeywell R7795A, B, C, D

Intellidyne
90 Pratt Oval
Glen Cove, NY 11542
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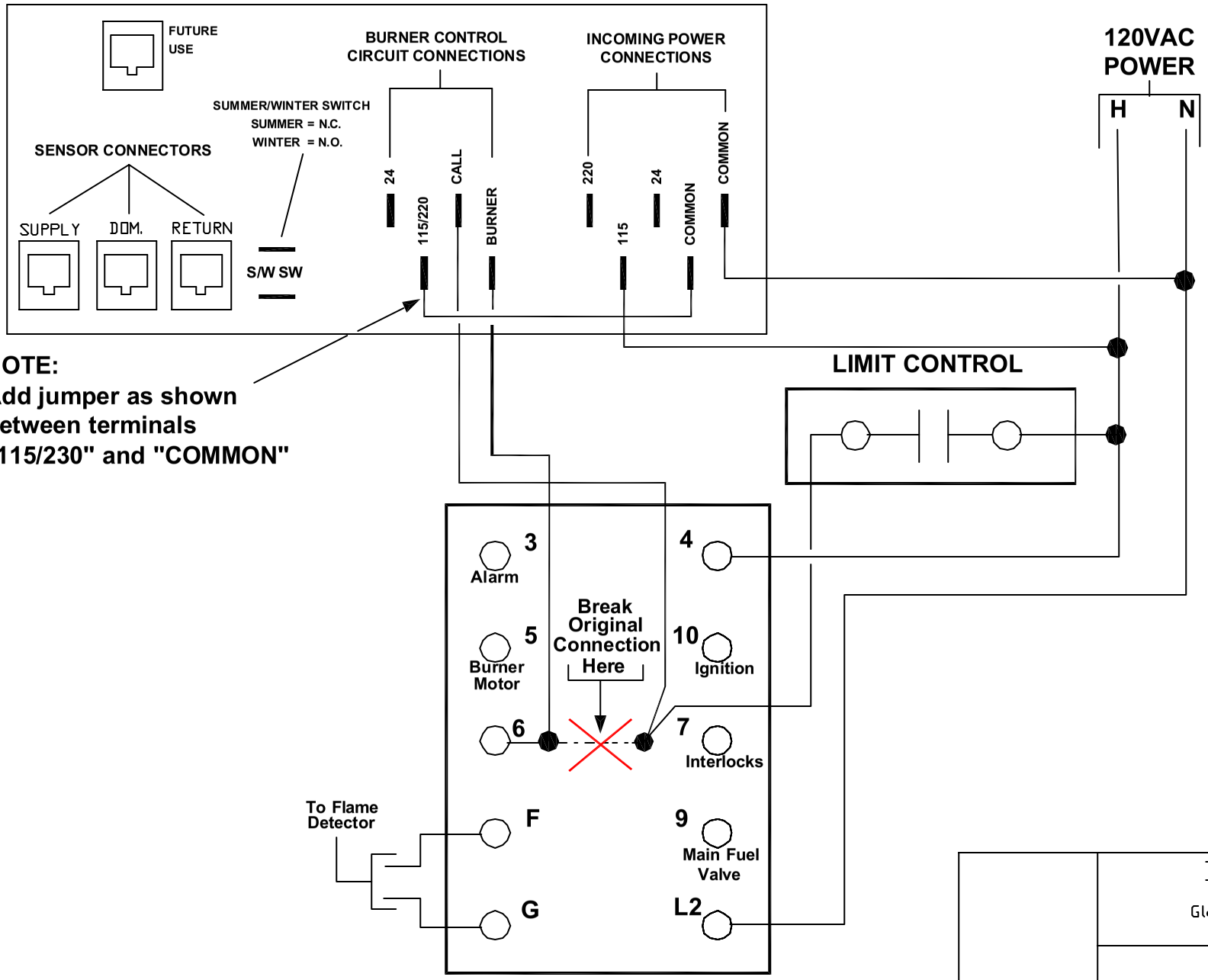
CUSTNAME
DWGDESC

DWG. # _____ DATE: _____

IntelliCon CHS or CHW With Honeywell RM7800/RM7840 E, G, L, M

IntelliCon Wiring Compartment



TYPICAL RM7800/RM7840 E, G, L, M

Note: Not all terminals shown.

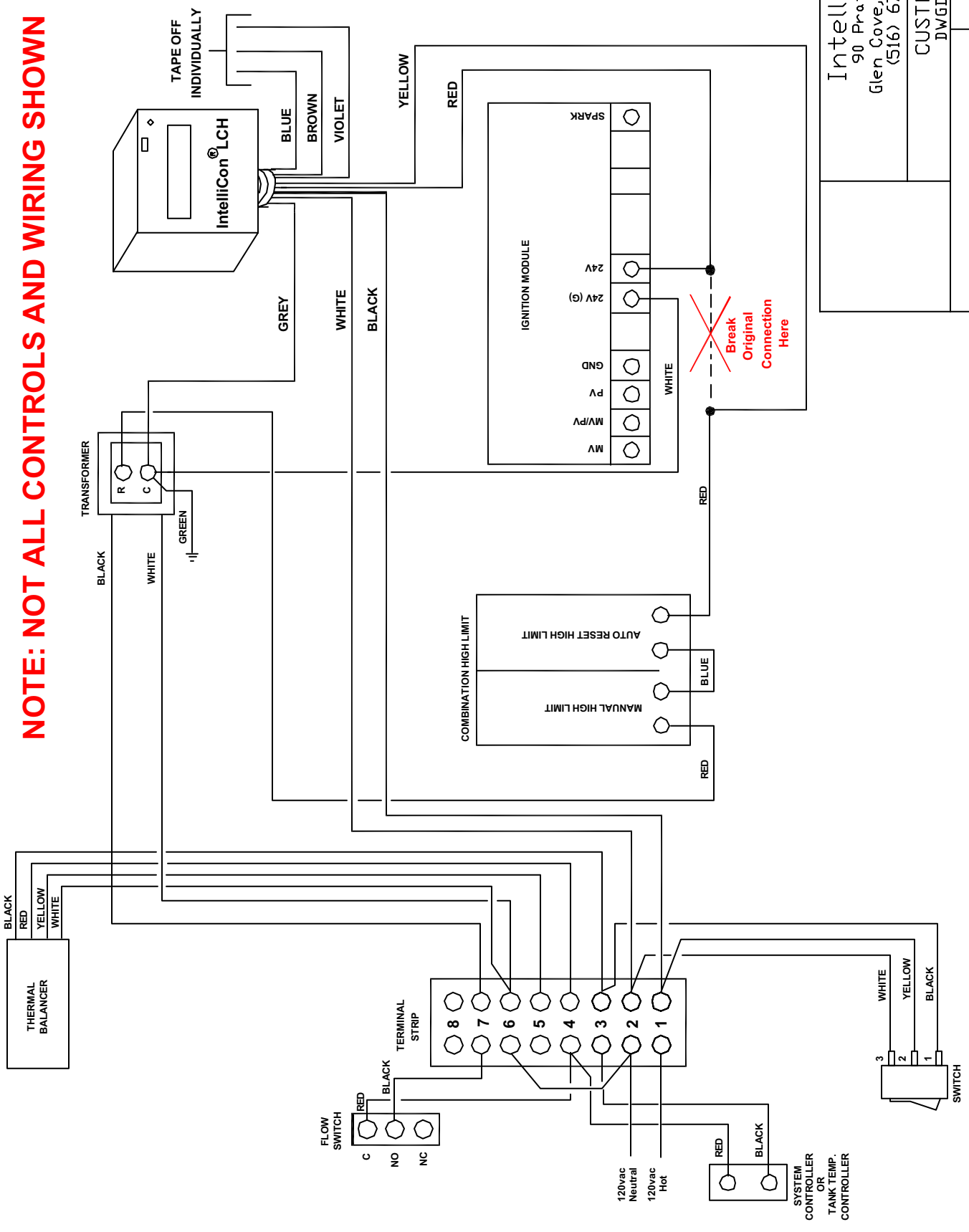
Intellidyne
90 Pratt Oval
Glen Cove, NY 11542
(516) 676-0777

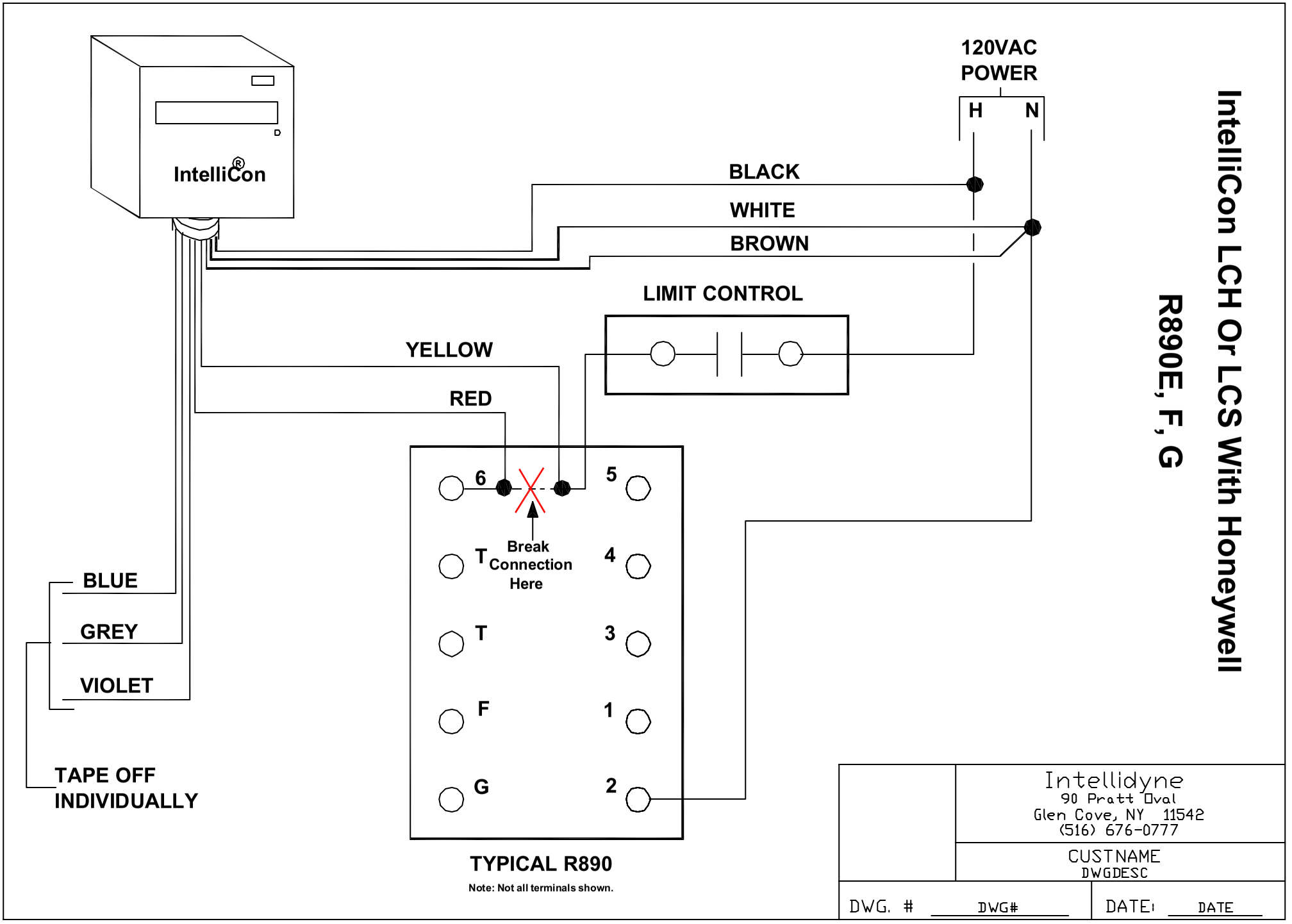
CUSTNAME
DWGDESC

DWG. # _____ DATE: _____

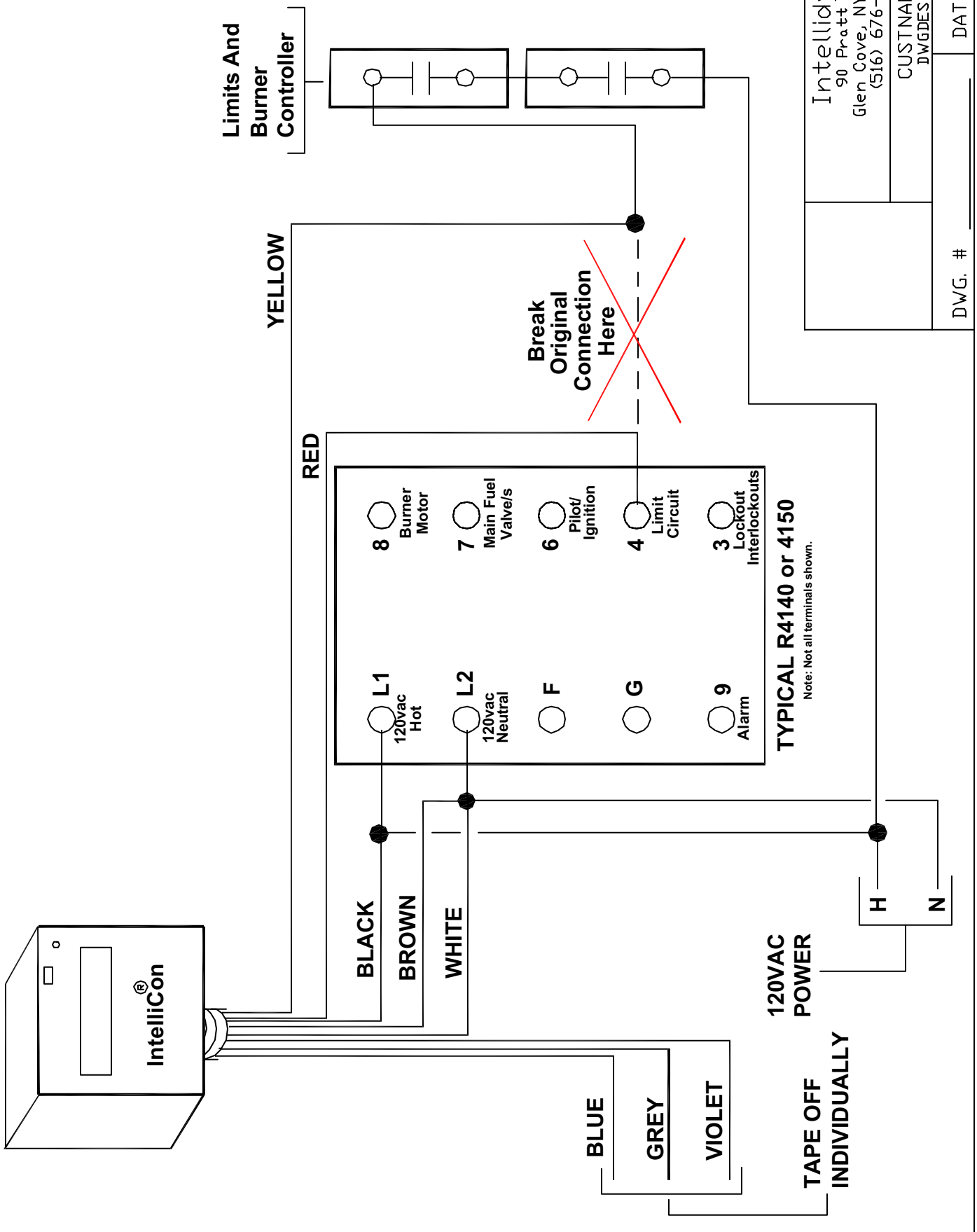
3/06/06

IntelliCon LCH with AO Smith DuraMax
Models DB/DW 720 - 1810

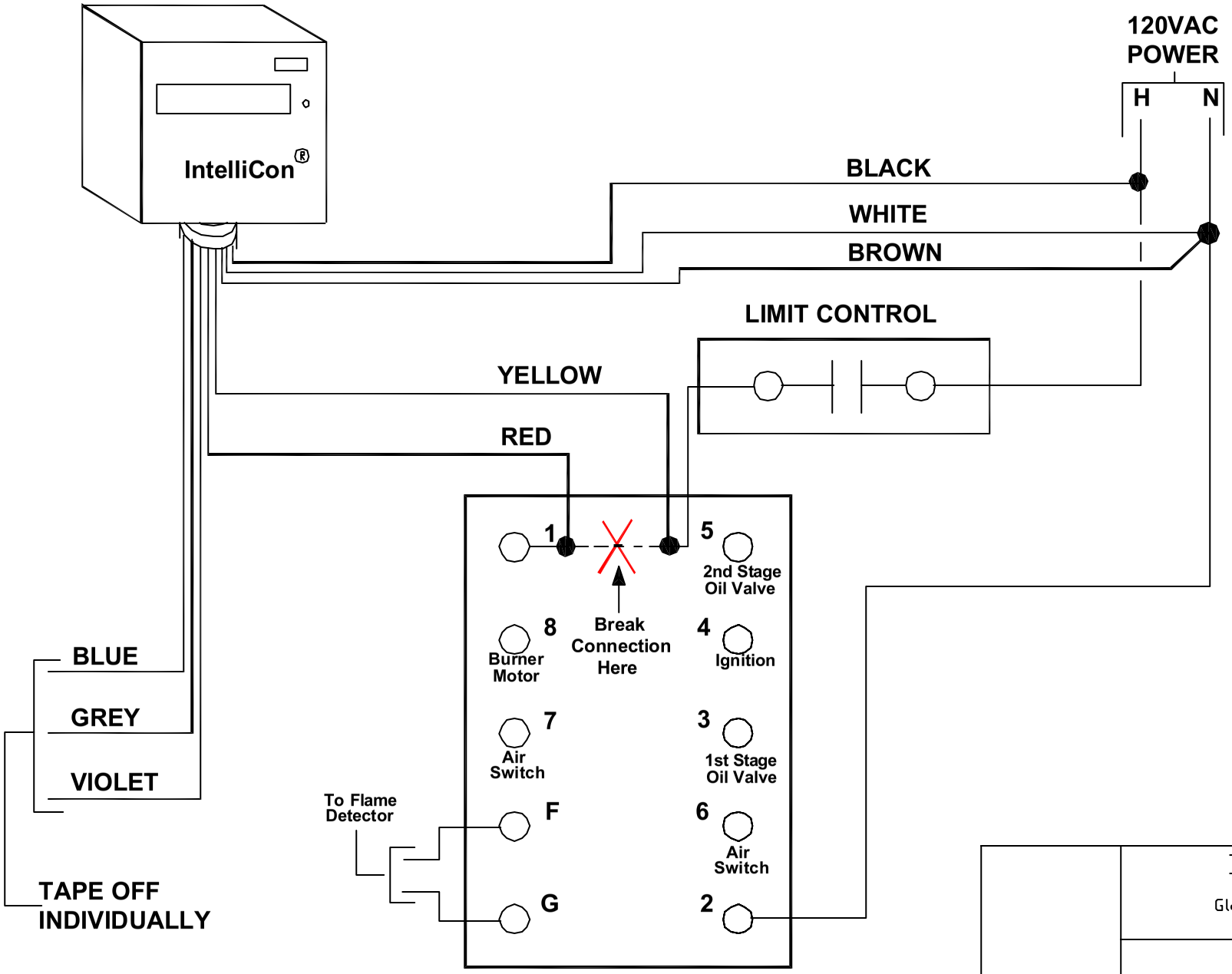



IntelliCon
120VAC
POWER
H
N
BLACK
WHITE
BROWN
LIMIT CONTROL
YELLOW
RED
6
5
T
4
T
3
F
1
G
2
Break
Connection
Here
BLUE
GREY
VIOLET
TAPE OFF
INDIVIDUALLY
TYPICAL R890
Note: Not all terminals shown.
IntelliCon LCH Or LCS With Honeywell
R890E, F, G
Intellidyne
90 Pratt Oval
Glen Cove, NY 11542
(516) 676-0777
CUSTNAME
DWGDESC
DWG. # DWG#
DATE: DATE

IntelliCon LCH or LCS With Honeywell R4140G, L,M or R4150A, C, X



IntelliCon LCH OR LCS With Honeywell R4795A,D



TYPICAL R4795

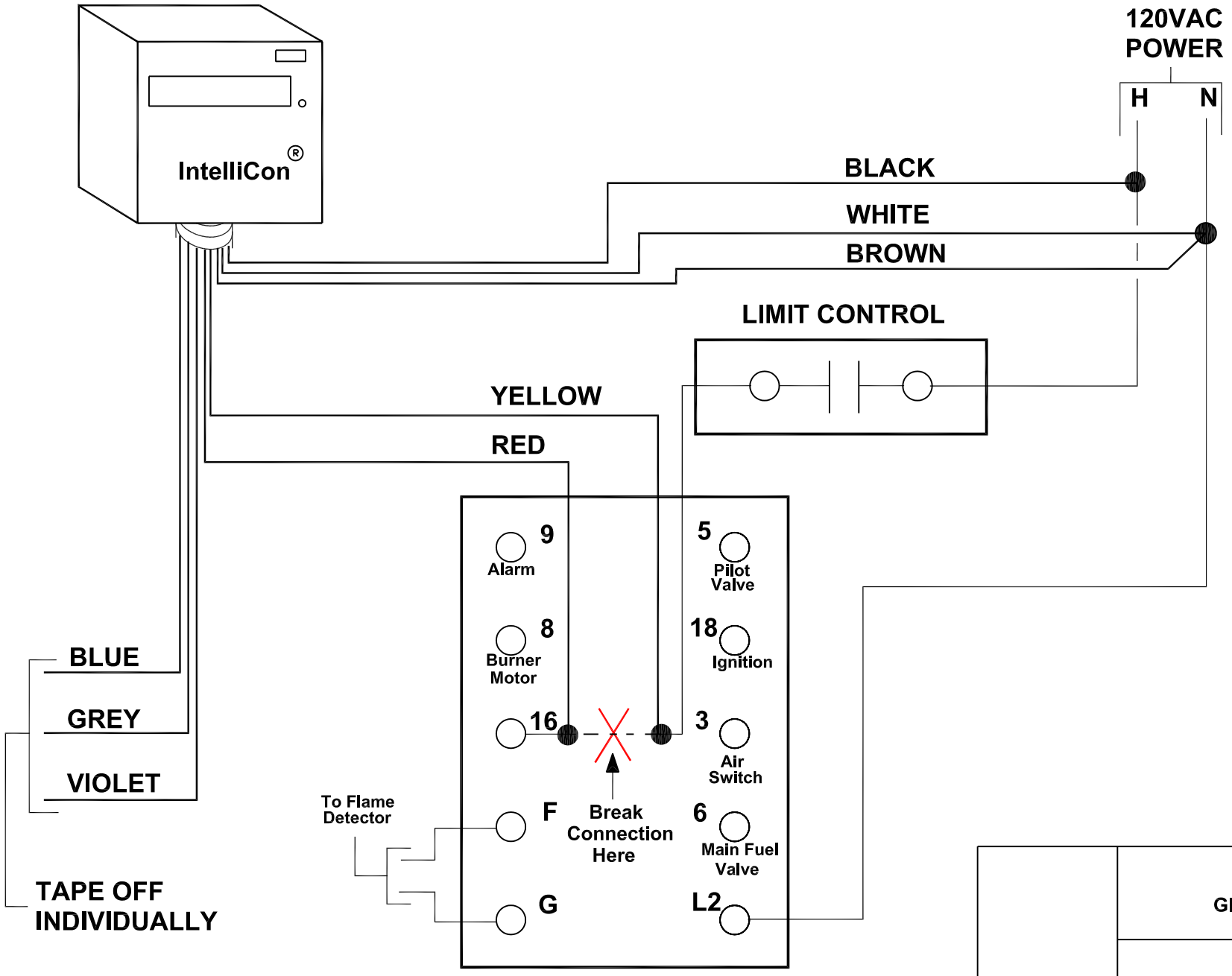
Note: Not all terminals shown.

Intellidyne
90 Pratt Oval
Glen Cove, NY 11542
(516) 676-0777

CUSTNAME
DWGDESC

DWG. # _____ DATE: _____

IntelliCon LCH or LCS With Honeywell R7795A, B, C, D



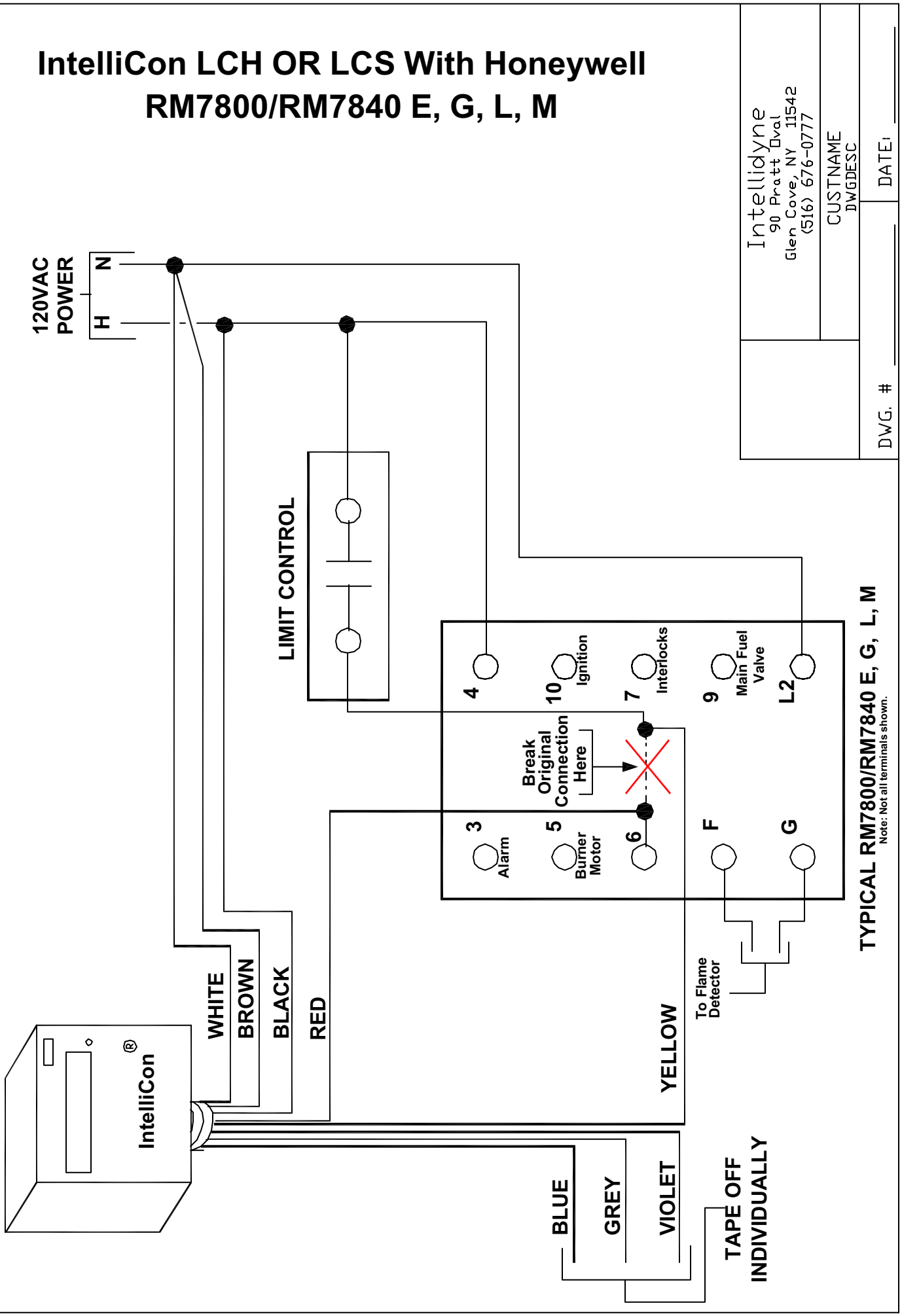
TYPICAL R4795
Note: Not all terminals shown.

Intellidyne
90 Pratt Oval
Glen Cove, NY 11542
(516) 676-0777

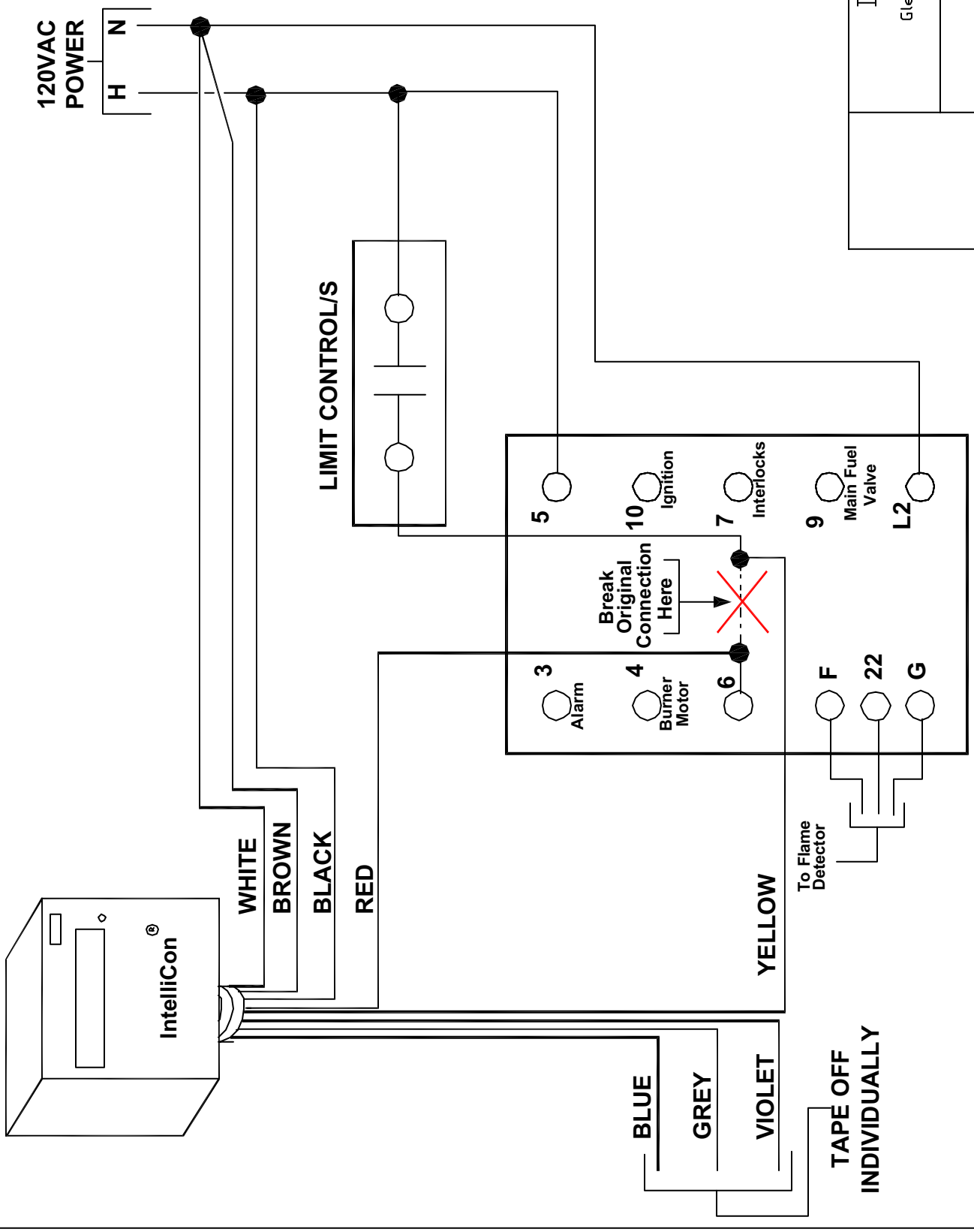
CUSTNAME
DWGDESC

DWG. # _____ DATE: _____

IntelliCon LCH OR LCS With Honeywell RM7800/RM7840 E, G, L, M



IntelliCon LCH OR LCS With Honeywell RM7895



Intellidyne
90 Pratt Oval
Glen Cove, NY 11542
(516) 676-0777

CUSTNAME
DWGDESC

DATE:

DWG. #

REFRIGERATION

CAUTION: Read and follow these general instructions and the instructions that are packed with the *IntelliCon*® Model RU.
Failure to follow these instructions could result in damage to the system or cause a hazardous condition.

General Instructions

PUMP DOWN SYSTEMS:

When installing the Model RU on pump down type refrigeration systems the *IntelliCon*® RU should be connected so that the call for the liquid line solenoid valve is delayed from opening instead of delaying the compressor. This assures that the evaporator is not flooded with refrigerant.

OIL PRESSURE SAFETY CONTROLS:

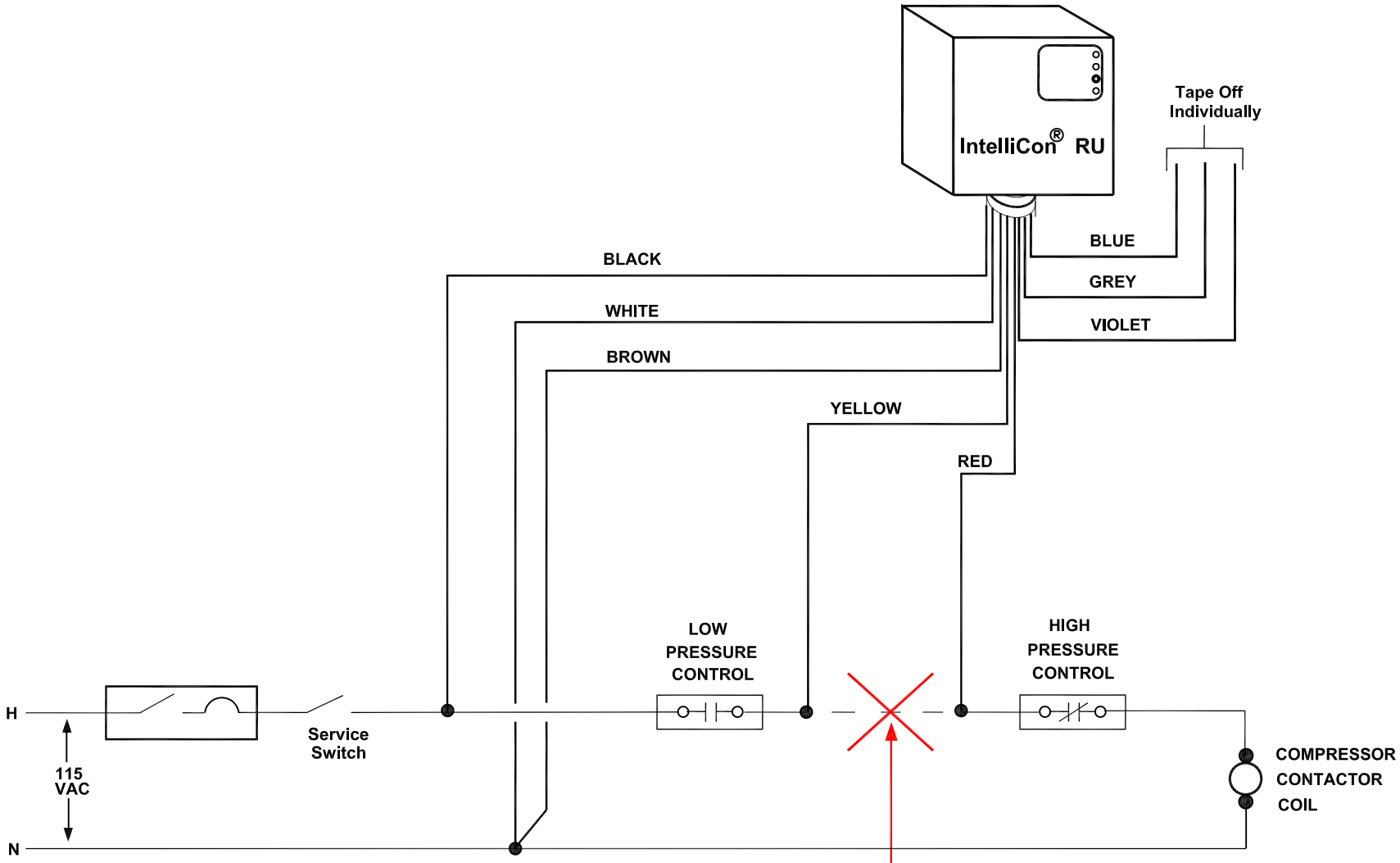
CAUTION: Do not connect the *IntelliCon*® RU after the oil pressure safety control!

Some commercial refrigeration systems utilize compressor oil pressure safety controls.
The compressor oil pressure safety control has a time delay to allow the compressor to build up proper oil pressure. This time delay is energized on a call for the compressor to run.
If the *IntelliCon*® RU is wired incorrectly in the control circuit, the oil pressure safety control could time-out resulting in a manual reset lockout condition.

The wiring diagrams that follow show the correct installation of the *IntelliCon*® RU in such a system.

NOTE: The following diagrams are representative of typical refrigeration systems and do not show all controls that may be in your particular system. Actual system wiring may differ

IntelliCon RU With Typical 115VAC Pressure Control Operated Refrigeration System



NOTE: 1. Actual wiring may differ depending on equipment manufacturer.

2. Equipment may have controls that are not shown.

Intellidyne
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(516) 676-0777

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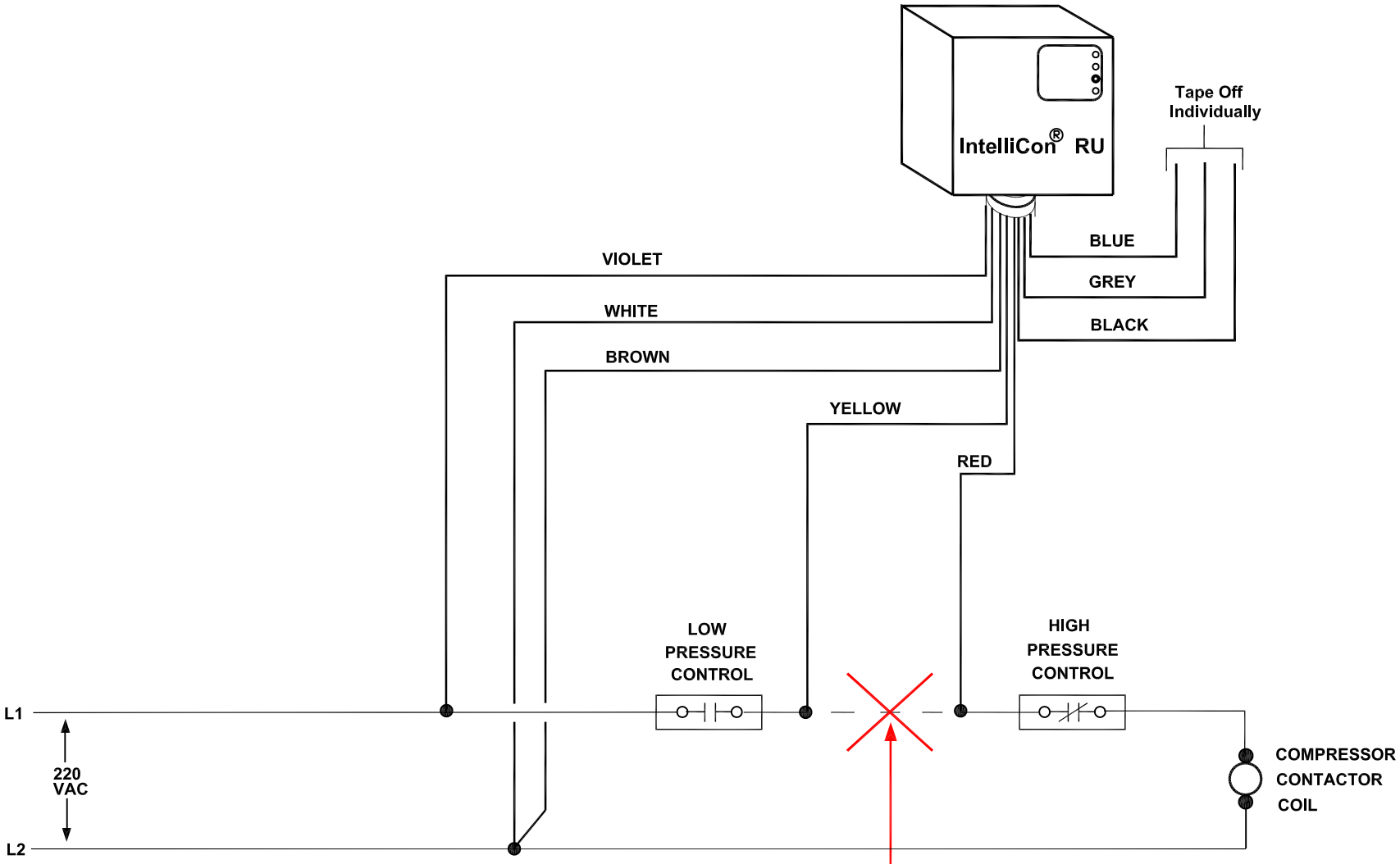
DWGDESC

DWG. # DWG#

DATE: DATE

IntelliCon RU With Typical 220VAC Pressure Control Operated Refrigeration System



NOTE: 1. Actual wiring may differ depending on equipment manufacturer.

2. Equipment may have controls that are not shown.

Intellidyne
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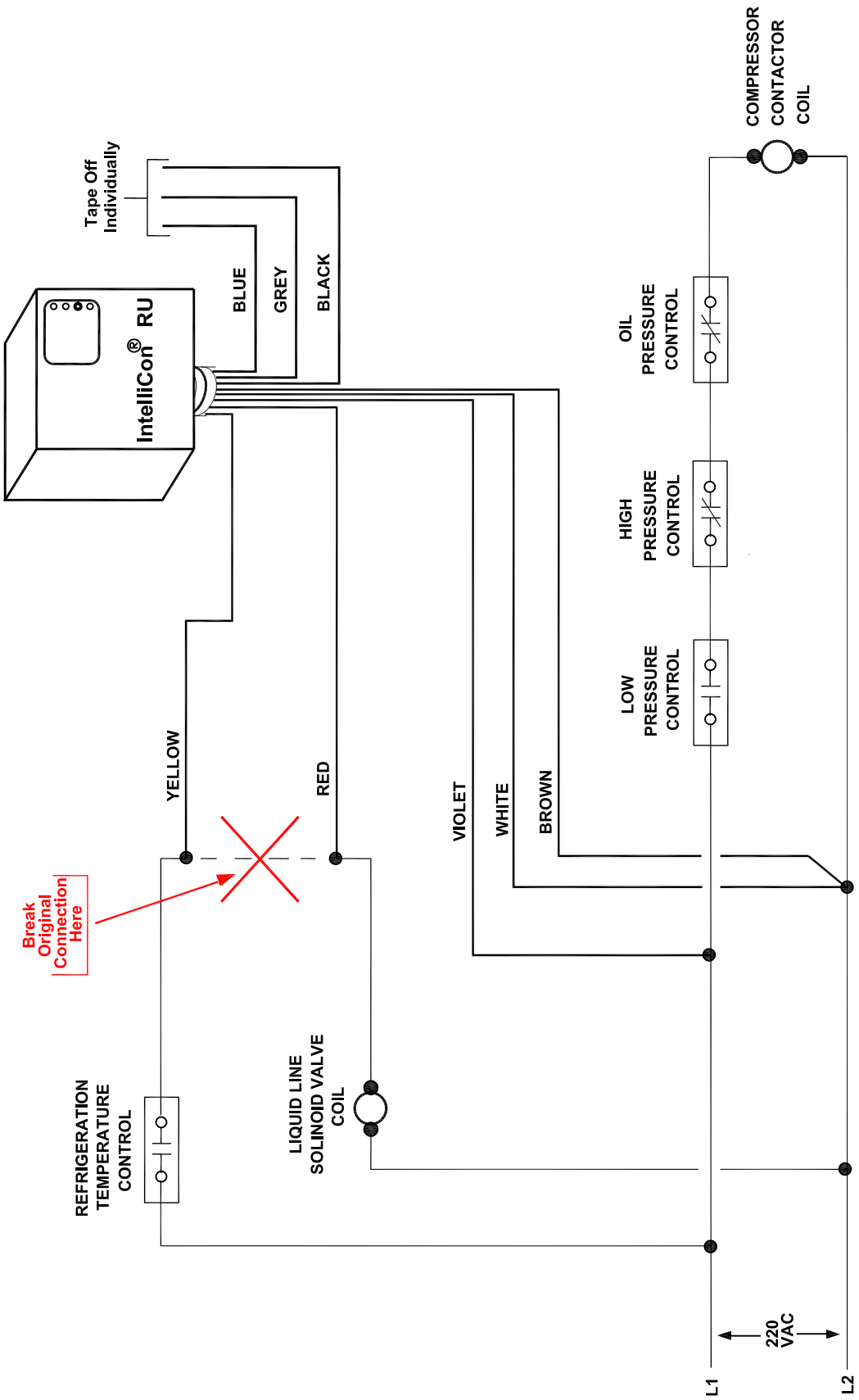
(516) 676-0777

CUSTNAME
DWGDESC

DWG. # DWG#

DATE: DATE

IntelliCon RU With Typical 220VAC, Single or Three Phase Pumpdown Type Refrigeration System Using Same Power and Control Voltages



NOTE: 1. Actual wiring may differ depending on equipment manufacturer.

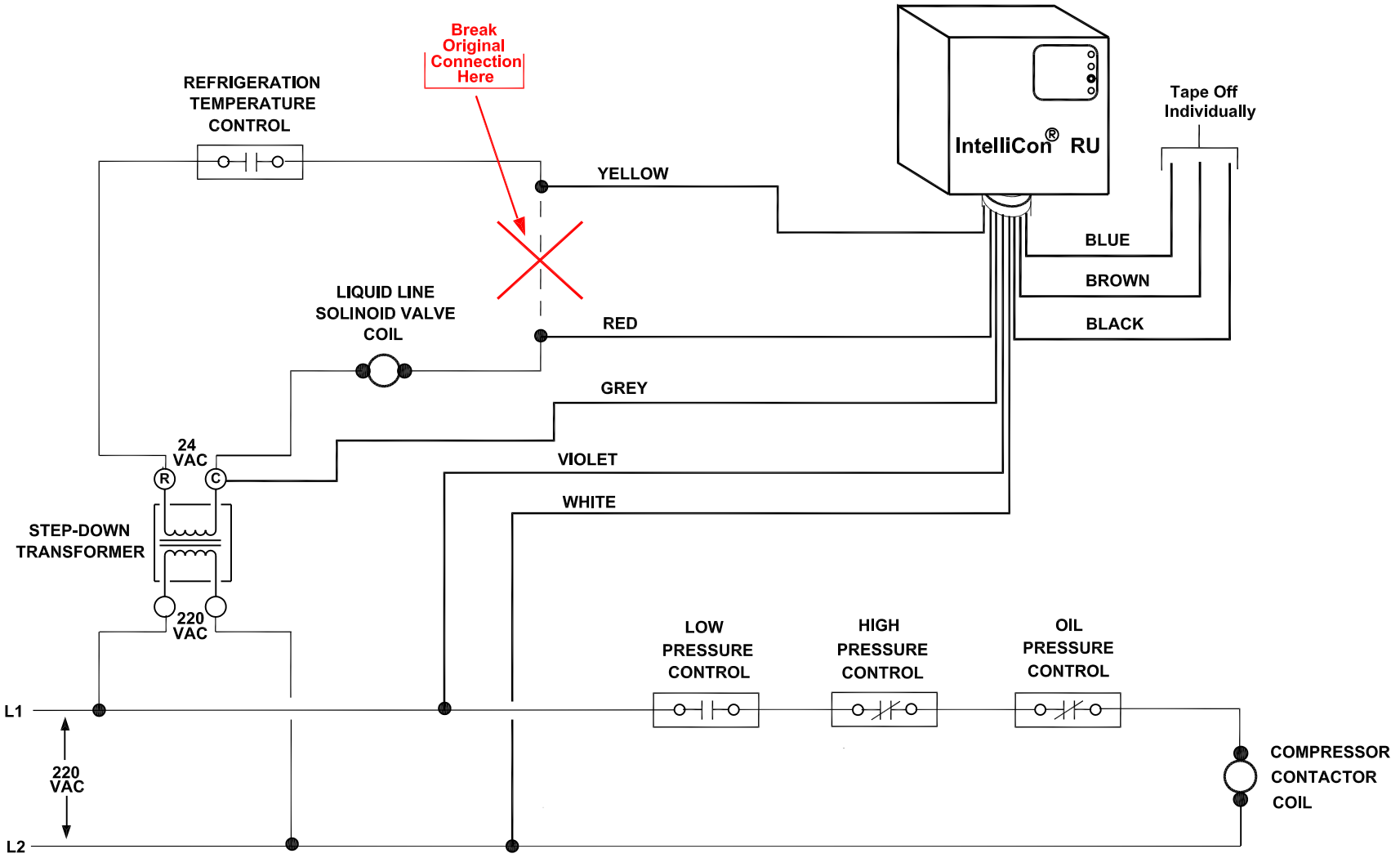
2. Equipment may have controls that are not shown.

Intellidyne
90 Pratt Oval
Glen Cove, NY 11542
(516) 676-0777

CUSTNAME
DWGDESC

DWG. # _____ DWG# _____ DATE: _____ DATE

IntelliCon RU With Typical Single or Three Phase Pumpdown Type Refrigeration System 220vac Power, 24vac Control Voltages



NOTE: 1. Actual wiring may differ depending on equipment manufacturer.

2. Equipment may have controls that are not shown.

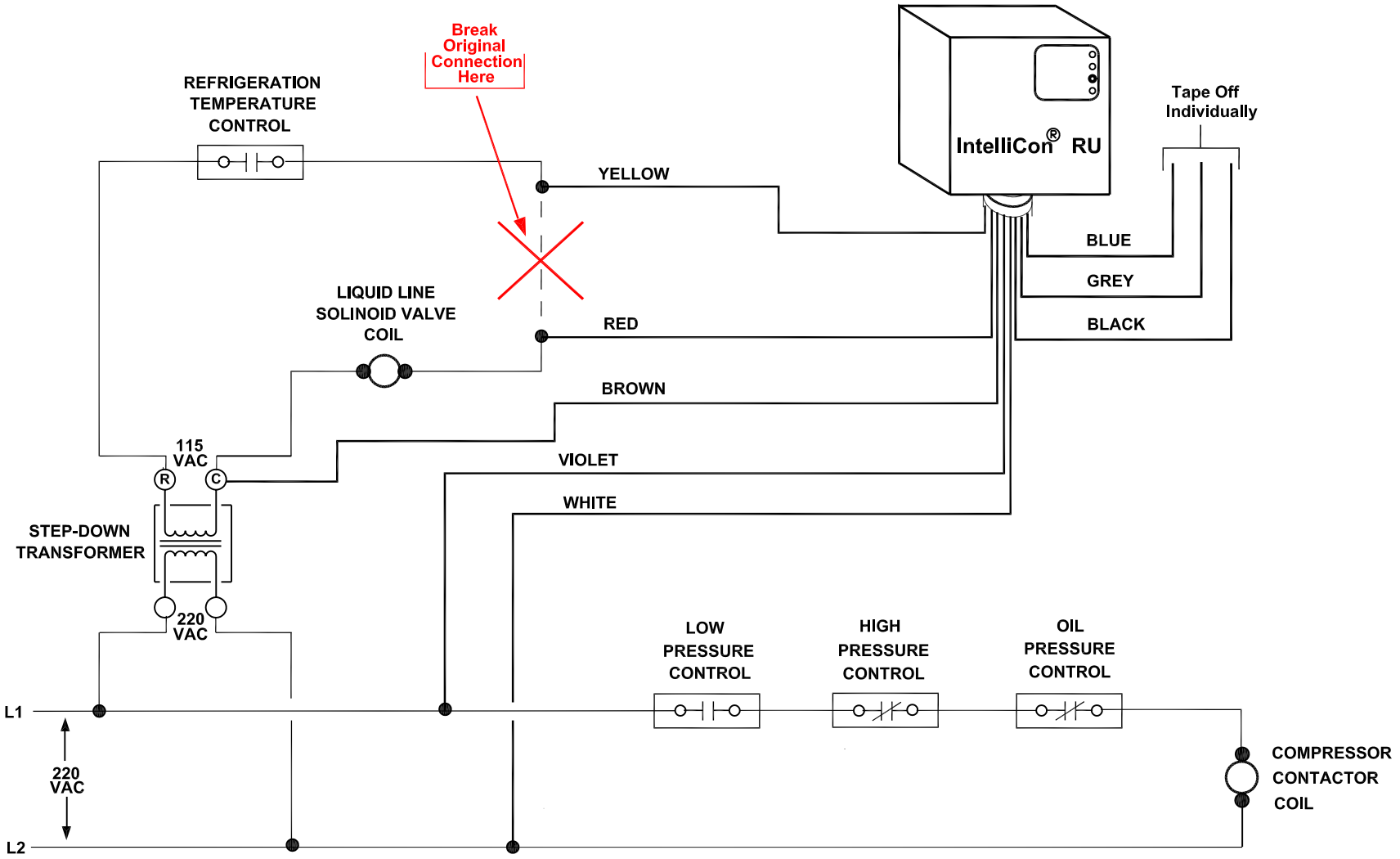
Intellidyne
90 Pratt Oval
Glen Cove, NY 11542
(516) 676-0777

CUSTNAME
DWGDESC

DWG. # DWG#

DATE: DATE

IntelliCon RU With Typical Single or Three Phase Pumpdown Type Refrigeration System 220vac Power, 115vac Control Voltages



NOTE: 1. Actual wiring may differ depending on equipment manufacturer.

2. Equipment may have controls that are not shown.

	Intellidyne 90 Pratt Oval Glen Cove, NY 11542 (516) 676-0777
	CUSTNAME DWGDESC
DWG. # DWG#	DATE: DATE

DIAGRAM "A"

IntelliCon FA with Honeywell R8184G, K, L or N Cad Cell Relay

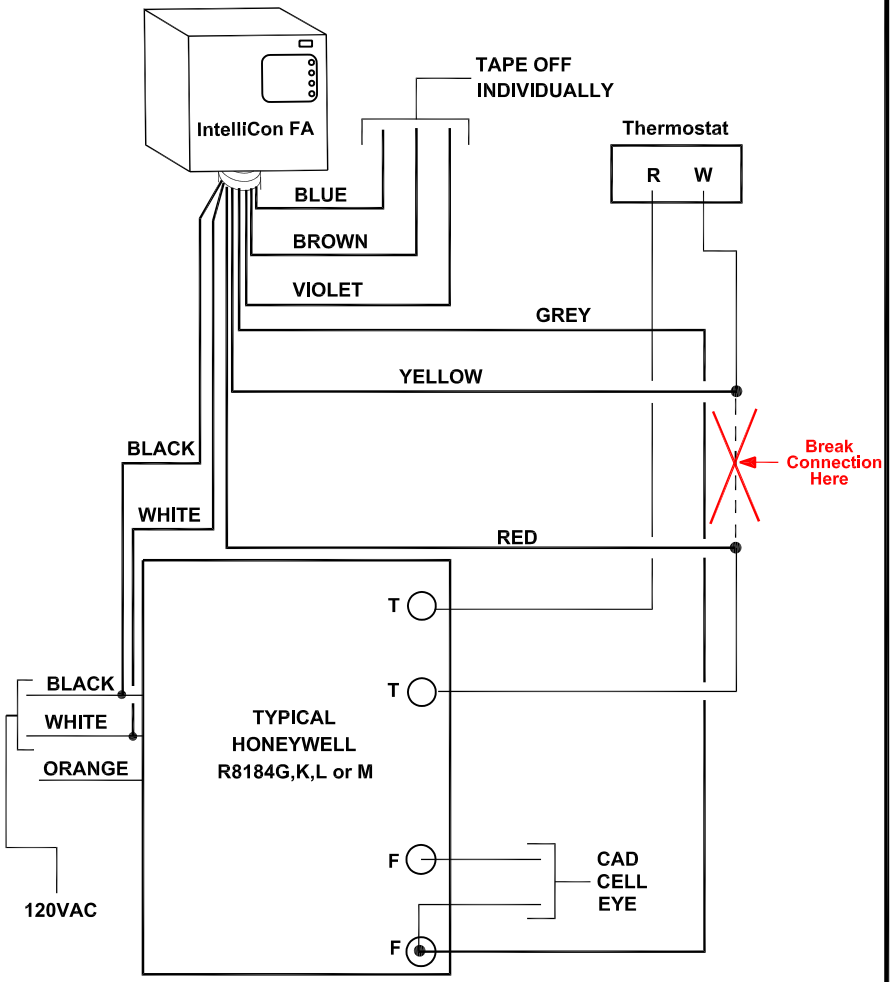
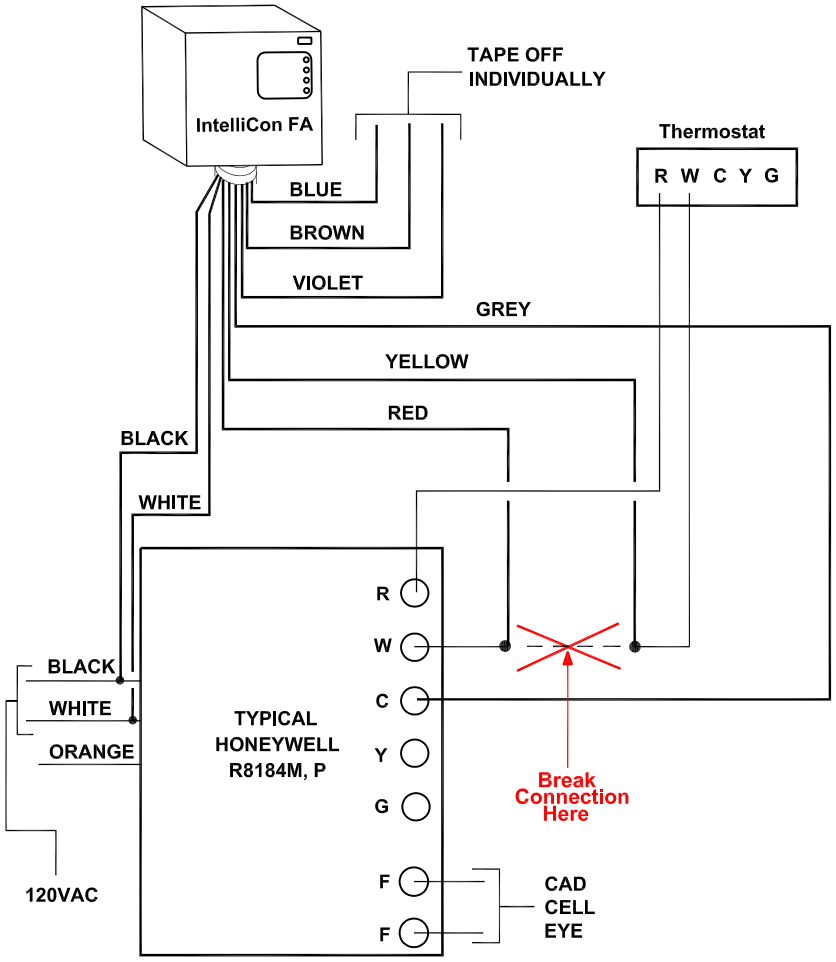


DIAGRAM "B"

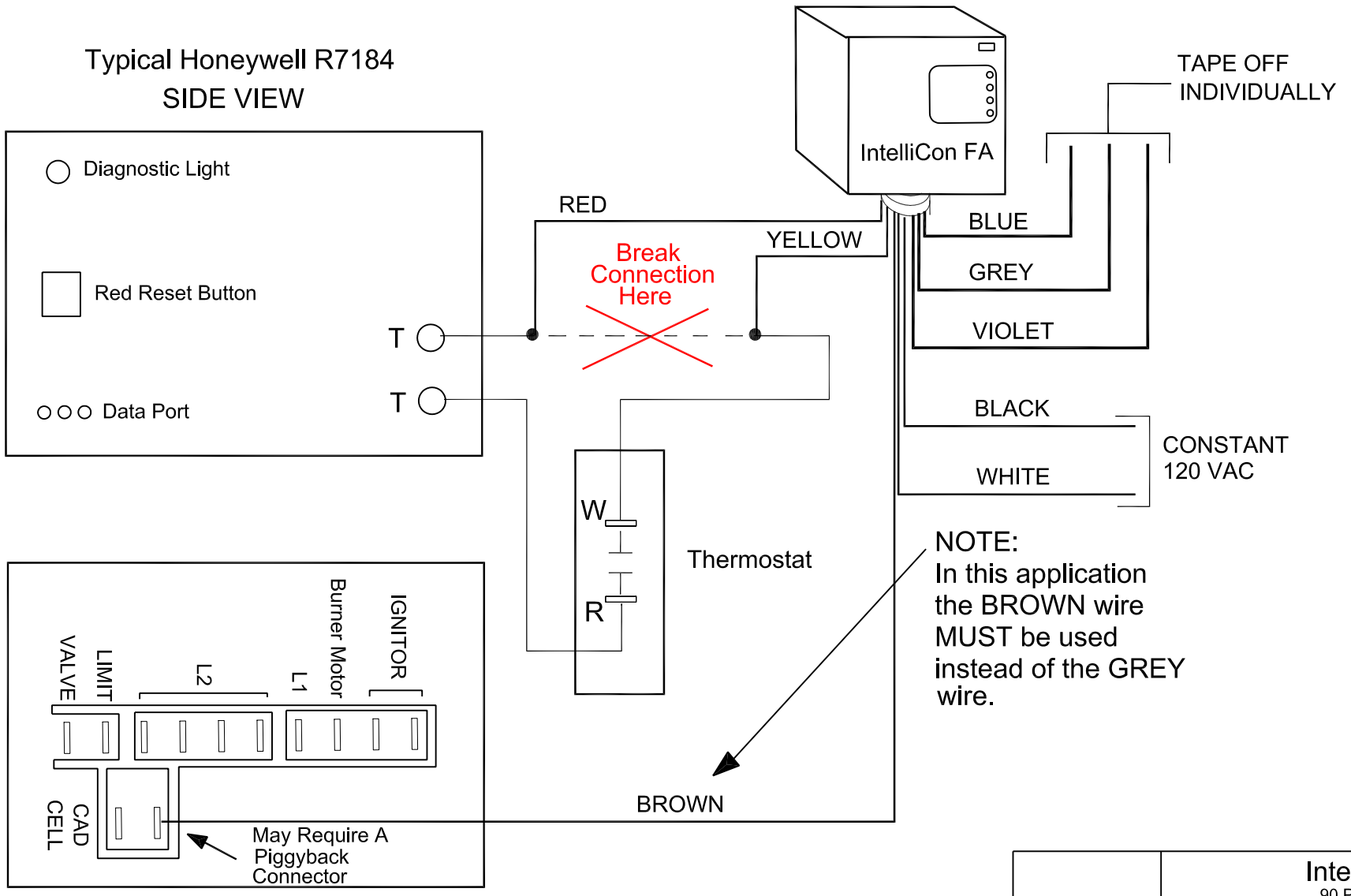
IntelliCon FA with Honeywell R8184M or P Cad Cell Relay



	Intellidyne 90 Pratt Oval Glen Cove, NY 11542 (516) 676-0777
	CUSTNAME DWGDESC
DWG. # R8184G,K,L,N M,P with FA	**DATE:** DATE

5-2

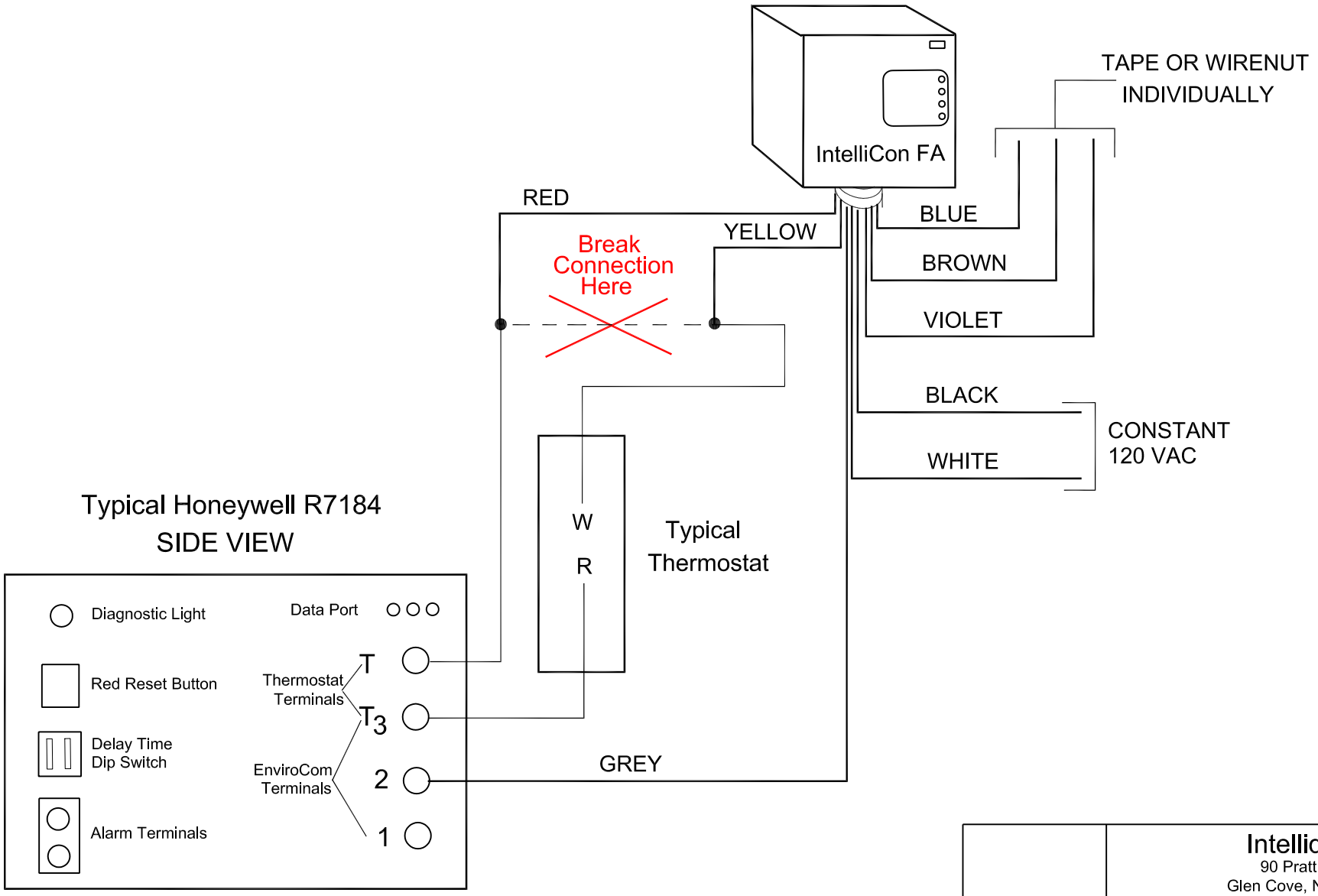
Diagram "C"



IntelliCon FA with Honeywell
R7184A,B,P,U Electronic Oil Primary

	Intellidyne 90 Pratt Oval Glen Cove, NY 11542 (516) 676-0777
	CUSTNAME DWGDESC
DWG. # DWG#	DATE: DATE

IntelliCon FA with Honeywell R7184A,B,P,U "SERIES 5" Electronic Oil Primary



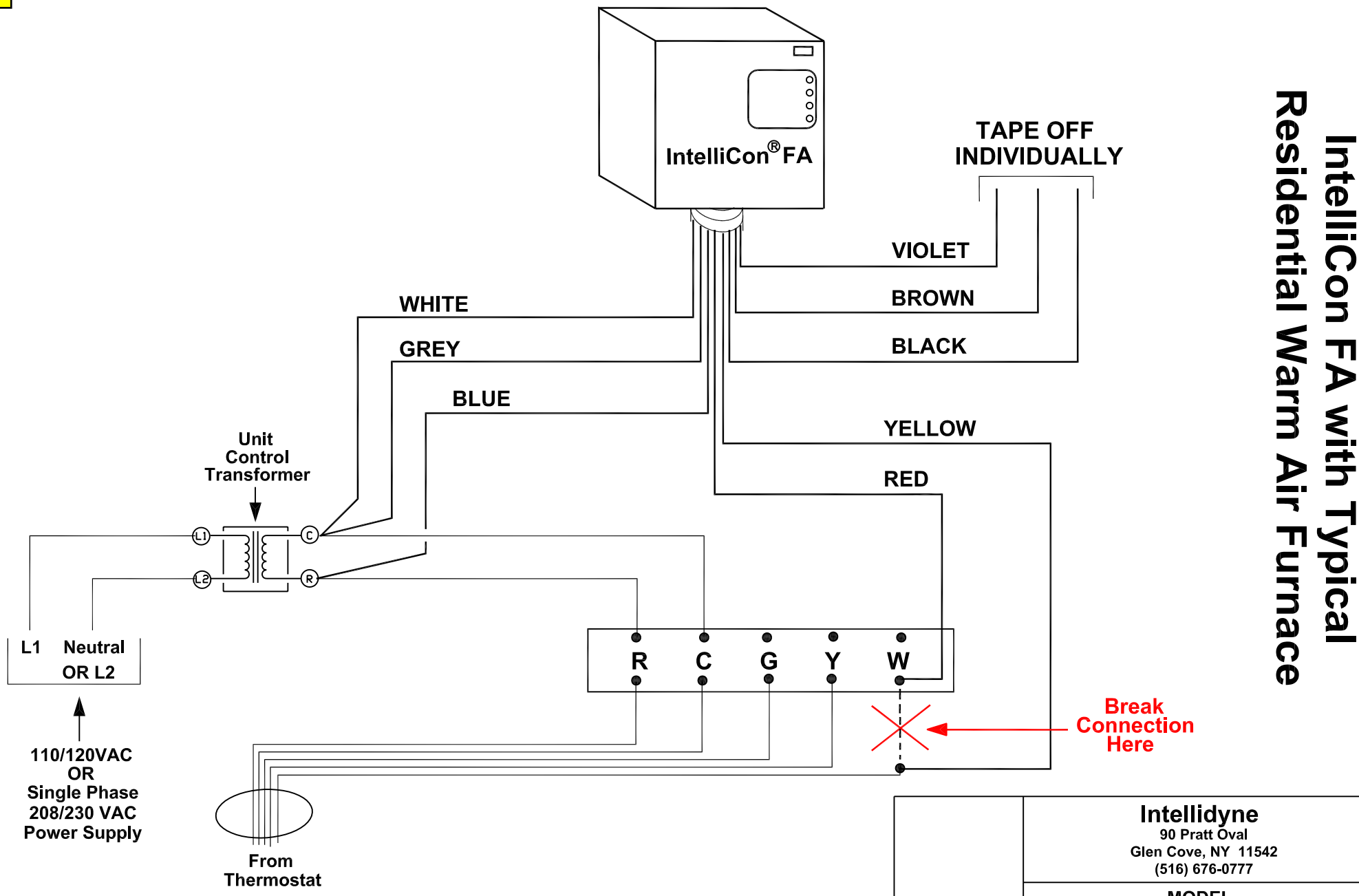
Intellidyne
90 Pratt Oval
Glen Cove, NY 11542
(516) 676-0777

CUSTNAME
DWGDESC

DWG. # FA with R7184 Cad Cell

DATE: DATE

IntelliCon FA with Typical Residential Warm Air Furnace



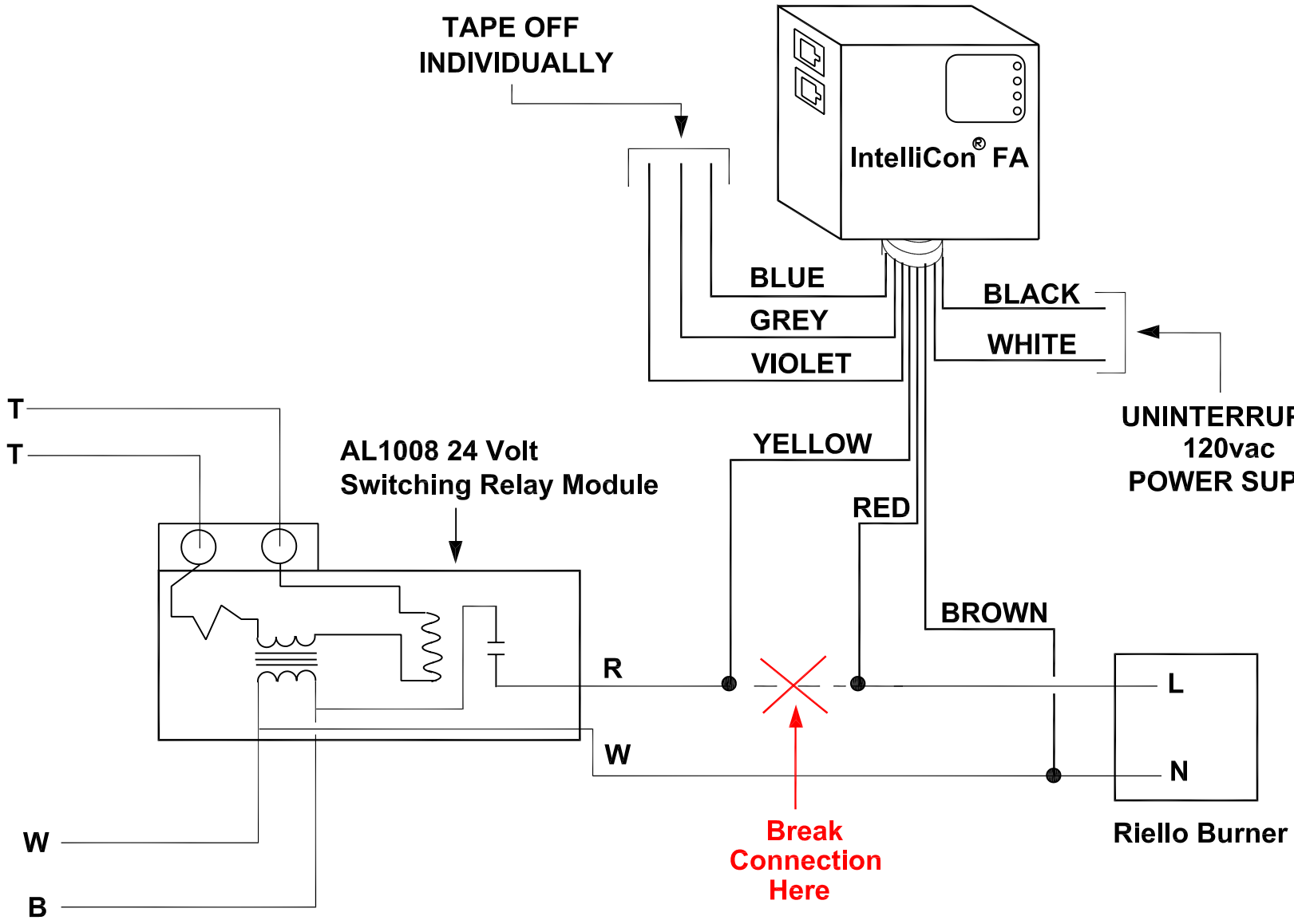
Intellidyne
90 Pratt Oval
Glen Cove, NY 11542
(516) 676-0777

MODEL
FA/CFA

DWG. # FA/120/230vac

DATE: 03/28/06

IntelliCon FA with Riello Burner
Using 24vac Switching Relay Module



NOTE:

The IntelliCon Model FA must be connected as shown when a Riello burner is used with a 24vac switching relay module. Connecting this way ensures that the FA Heating Economizer is connected after the call for heat, but before the burner flame safeguard.

5-5

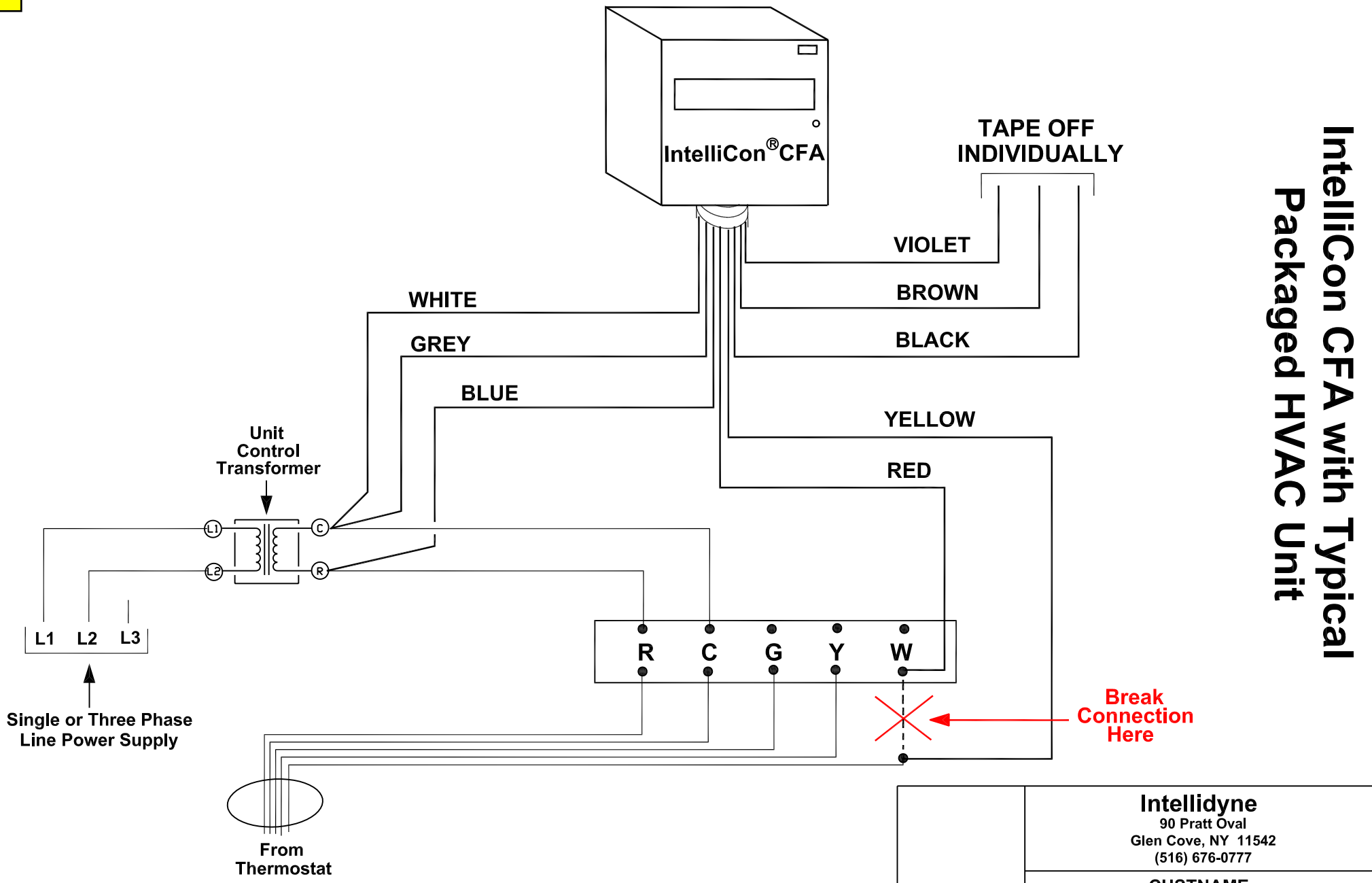
Intellidyne
90 Pratt Oval
Glen Cove, NY 11542
(516) 676-0777

CUSTNAME
DWGDESC

DWG. # FA/Riello Relay

DATE: 04/28/06

IntelliCon CFA with Typical Packaged HVAC Unit



	Intellidyne 90 Pratt Oval Glen Cove, NY 11542 (516) 676-0777
	CUSTNAME DWGDESC
DWG. # DWG#	DATE: DATE

NOTES

NOTES

NOTES

NOTES

IntelliCon® Application Guidelines

Applications:

- **Packaged Air Conditioning Units**
- **Split Type Air Conditioning Units**
- **Self Contained, Air or Water Cooled Air Conditioning Units**
- **Heat Pumps, (water source or air to air)**
- **Residential Hot Water Heating Systems (Demand Type)**
- **Residential Heat Pumps**
- **Residential Central Air Conditioning**
- **Residential Forced Warm Air Furnaces (gas or oil fired)**
- **Commercial Forced Warm Air Units (Stand-Alone or Packaged Rooftop HVAC, gas or oil fired)**
- **Commercial Refrigeration (>1.0 HP)**
- **Commercial Steam Heating Boilers (with or without a Domestic Hot Water Coil)**
- **Commercial Hot Water Heating Boilers (with or without a Domestic Hot Water Coil)**
- **Commercial Hot Water Heaters (gas or oil only)**
- **Indirectly Heated Absorption Chillers**
- **Screw Type Compressors (Used in Demand Applications)**

Non-Applications:

- **Centrifugal Compressors**
- **Screw Compressors (Proportionally Controlled)**
- **Commercial Refrigeration (< 1HP)**
- **Refrigeration Cascade Systems**
- **Refrigeration Rack Systems (*Pending release of PDL product*)**
- **Ice Machines**
- **Direct Fired Absorption Chillers (*Pending release of DFC product*)**
- **Window or Wall Type Air Conditioners (*Pending release of ACW product*)**
- **Ductless Mini Split Air Conditioning (*Pending release of ACW product*)**
- **Heated “Make–up Air” Units**
- **Chillers or Boilers used for Process Control**
- **Electric Hot Water Heaters**
- **Milli-Volt or Self Generating PowerPile Systems**
- **York “Millinium” Chillers**
- **Proportionally Controlled Chillers**
- **Carrier “FloTronic” Chillers**